### DUTCH BOY / INTERNATIONAL HARVESTER SITE PERIMETER AIR MONITORING DURING DEMOLITION

### **Draft Report**

Project Site:

Dutch Boy/International Harvester Site
S. Peoria St. and W. 120th St.

Chicago, Illinois

Prepared for:
City of Chicago
Department of Environment
Chicago, Illinois

Prepared by:
Harza Environmental Services, Inc.
Chicago, Illinois

August 12, 1996



August 12, 1996

Mr. Kevin Stanciel
City of Chicago
Department of Environment
Commissioner's Office
25th Floor
30 North LaSalle Street
Chicago, Illinois 60602-2575

Subject:

Dutch Boy / International Harvester Site

Perimeter Air Monitoring During Demolition

Dear Mr. Stanciel:

Please find enclosed the subject draft report. Feel free to call me at (312) 831-3812 or Rudy Angelucci at (312) 831-3835 if we can be of further assistance. Thank you for the opportunity to work with you on this project.

Very truly yours,

Robert P. Kewer Project Manager

RPK/SPH/sph enclosure

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#### 1.0 EXECUTIVE SUMMARY

Harza Environmental Services, Inc. (Harza) was retained by The City of Chicago (the City) to provide environmental services at the Dutch Boy and International Harvester sites during demolition activities. The demolition project undertaken by the City included:

- Demolition and removal of the remnant mill building at the Dutch Boy site;
- Demolition and removal of the smokestack at the International Harvester site; and
- Air quality monitoring during all demolition activities.

Harza performed the air quality monitoring, which included air monitoring and air sampling for particulates during demolition at both sites, and air sampling for lead at the Dutch Boy site.

Demolition activities began on Tuesday, April 30, 1996, and ended on Thursday, May 23, 1996. Four monitoring stations were set up daily during this period. One station was located upwind of the demolition activities, and three stations were located downwind. Each station contained:

- One real-time monitor;
- One pump with filter for lead;
- One pump with cyclone and filter for respirable dust.

Samples were analyzed by American Medical Laboratories, Inc. (AML), of Chantilly, Virginia. AML is a laboratory accredited by the American Industrial Hygiene Association (AIHA), and participant in proficiency programs provided by the National Institute of Occupational Safety and Health (NIOSH).

Harza developed and recommended voluntary 'action levels', which were adopted by the City and implemented on this project. These voluntary action levels were identified as half of the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL). Therefore, the voluntary action levels for this project were:

Respirable Dust:

2.5 milligrams per cubic meter (mg/m³)

Lead (Dutch Boy site only):

25 micrograms per cubic meter (µg/m³)

Lead concentrations exceeded the voluntary action level only once, on Thursday, May 2, 1996. This sample, taken downwind of the Dutch Boy mill building, yielded a concentration of 26.1  $\mu$ g/m<sup>3</sup>. This level exceeds the established voluntary action level of 25  $\mu$ g/m<sup>3</sup> for the site, but was still below the OSHA PEL of 50  $\mu$ g/m<sup>3</sup>. At no other time was the voluntary action level for lead exceeded.

During the course of demolition, no respirable dust levels recorded by the real-time monitors or in laboratory results for samples were observed to exceed the voluntary action level at either site.

All air sample results for lead, and all air sample results and real-time monitoring recordings for respirable dust, were below OSHA PELs.

#### 2.0 INTRODUCTION

### 2.1 Project Description

Harza Environmental Services, Inc. (Harza) was retained by The City of Chicago (the City) to provide environmental services at the Dutch Boy and International Harvester sites during demolition activities. The demolition project undertaken by the City included:

- Demolition and removal of the remnant mill building at the Dutch Boy site;
- Demolition and removal of the smokestack at the International Harvester site; and
- Air quality monitoring during all demolition activities.

Harza performed the air quality monitoring, which included air monitoring and air sampling for particulates during demolition at both sites, and air sampling for lead at the Dutch Boy site.

### 2.2 Site Description

The Dutch Boy site occupies about 3½ acres at the southwest corner of South Peoria and 120th Street in the City of Chicago, Illinois (Figure 1). The International Harvester site occupies about 21 acres immediately west of the Dutch Boy site (Figure 2). Both are abandoned and partially demolished industrial facilities.

The Dutch Boy site was a lead and lead-based paint manufacturing facility which operated between 1894 and 1980. The only standing structure, which was demolished during this project, was the concrete and steel skeleton of a three story former mill building. Other areas contain pavements, foundations and other remnants of loading docks and buildings, piles of debris, and underground facilities such as basements, pipes and possible underground storage tanks.

The International Harvester site was a former heavy machine manufacturing facility which operated between 1903 and 1983. Most of the buildings on the site were demolished in 1983, and piles of debris are present from the demolition. An 80-foot high smokestack, which was the most significant structure still remaining at the site, was demolished during this project.

#### 2.3 Chemicals of Concern

Based on results of previous investigations, lead was determined to be the principal contaminant of concern at the Dutch Boy Site during demolition activities. Site areas immediately surrounding the mill building where lead has been found were protected by steel plates during the work so that the soils would not be disturbed, thus mitigating concerns that the lead from these soils would migrate off-site in dust. Respirable dust levels were also a concern during demolition at both the Dutch Boy and International Harvester sites.

### 2.4 Project personnel

Project personnel included the following:

City of Chicago: Project Manager Harza: Project Manager

Lead Engineer

Site Manager/Safety Officer
Health & Safety Consultant

Robert P. Kewer Rodolfo Angelucci Stephen Hempel Atsushi Fujii, CIH

Kevin Stanciel

The air monitoring was conducted by environmental engineers, Mr. Stephen Hempel and Mr. Rodolfo Angelucci, of Harza. Mr. Hempel and Mr. Angelucci have B.S. degrees in Civil and Environmental Engineering, and have extensive experience with air quality projects.

All samples were analyzed by American Medical Laboratories, Inc. (AML), of Chantilly, Virginia. AML is a laboratory accredited by the American Industrial Hygiene Association (AIHA), and participant in proficiency programs provided by the National Institute of Occupational Safety and Health (NIOSH). Analysis results are summarized in the tables presented in Section 4.0. Daily result summaries are presented in Appendix A, and laboratory reports from AML are provided in Appendix B.

### 3.0 SAMPLING METHODOLOGY

Background air samples were collected by Harza personnel on Sunday, April 28 and analyzed in the laboratory for respirable dust and lead. The background samples represented site conditions before any demolition work started. Demolition activities began on Tuesday, April 30, 1996, and ended on Thursday, May 23, 1996. Additional background samples were taken on Wednesday, June 12, 1996, following all demolition activities.

During each day of demolition, Harza personnel arrived on-site to set up sampling and monitoring equipment while the demolition crew mobilized. A pole-mounted meteorological station, which provided wind direction and speed, was erected each morning to allow proper selection of air monitoring stations. One air monitoring station was located upwind of demolition activities and three were located downwind. To the extent possible, monitors were located to allow visual access to the digital readings by interested third parties. The instruments were demobilized each night and reinstalled each morning.

Air samples collected were sent via express shipper to AML approximately every other day. Each sample was provided with a unique sample number which was recorded along with the date and time collected, location and other relevant sample information. Request for analysis forms accompanied each shipment to the laboratory.

### 3.2.1 Lead Sampling

The voluntary action level for lead was established as  $25 \mu g/m^3$ , which is half of the OSHA Permissible Exposure Limit (PEL). PELs represent levels of exposure to hazards, which must not be exceeded on a job-site. PELs are published and enforced by OSHA as legal standards. In the event that this voluntary action level (half of the OSHA PEL) was exceeded, Harza was responsible for notifying appropriate personnel, as specified by the City.

Lead air samples were collected on 37-mm mixed cellulose ester (MCE) filter cassettes using MSA air pumps. The pumps were set at a flow rate of approximately 2.4 liters per minute. Pumps were left in place for at least 3.5 hours to allow for sufficient air volume to pass through the filters. If the wind direction changed during the day, the pumps were relocated after at least 3.5 hours.

If steady rainfall occurred at the site, the sampling equipment was removed from service to avoid damaging the pumps or filters. In such conditions dust levels are minimal due to the precipitation. When weather conditions remained constant at the site, the sampling and monitoring equipment was left in place throughout the day. The cassettes were capped at the conclusion of the sampling and forwarded to AML for analysis.

The cassettes were capped at the conclusion of the sampling and forwarded to AML for analysis. The analysis to determine the presence of lead is performed by flame atomic absorption spectrophotometry techniques using NIOSH method 7082.

### 3.2.2 Respirable Dust Monitoring and Sampling

The voluntary action level for respirable dust was identified as 2.5 mg/m³, which is also half of the OSHA PEL. In the event that this voluntary action level was exceeded, Harza was responsible for notifying appropriate personnel.

Real-time monitor readings for particulates were recorded at least hourly and at any other time when visible dust was generated. The manual readings were used to determine whether voluntary action levels were being exceeded. The specific real-time monitors used were Model PDM-3, made by MIE, Inc. In Bedford, Massachusetts.

Respirable dust filter samples will be collected on pre-weighted, 37-mm PVC filter cassettes using MSA air pumps fitted with Gillian cyclones. The flow rate was set at 1.7 liters per minute. Pumps were left in place for at least 3.5 hours to allow for sufficient air volume to pass through the filters. If the wind direction changed during the day, the pumps were relocated after at least 3.5 hours.

If steady rainfall occurred at the site, the sampling and monitoring equipment was removed from service to avoid damaging the pumps, filters, and the moisture-sensitive real-time monitors. In such conditions, however, dust levels are minimal due to the precipitation. When weather conditions remained constant at the site, the sampling and monitoring equipment was left in place throughout the day. The cassettes were capped at the conclusion of the sampling and forwarded to AML for analysis.

### 4.0 DISCUSSION OF FINDINGS

### 4.1 Lead

Lead concentrations exceeded the voluntary action level on Thursday, May 2, 1996. This sample, taken downwind of the Dutch Boy mill building, yielded a concentration of 26.1  $\mu$ g/m³. This level exceeds the established voluntary action level of 25  $\mu$ g/m³ for the site, however, was well below the OSHA PEL of 50  $\mu$ g/m³. Harza notified the appropriate personnel, as specified by the City, immediately following the receipt of the laboratory results which showed lead levels exceeding voluntary action levels. Documentation of the notification action, in the form of a telephone log, is provided as Appendix C.

At no other time was the voluntary action level for lead exceeded. The highest lead concentrations detected coincide with downwind sampling during demolition of the Northeast corner and the South side of the mill building.

Table 1 presents the laboratory results for all the lead samples taken. The one sample that exceeded the voluntary action level is shown in bold. The numbers in parentheses represent the number of samples taken. Results are shown only for the samples that exhibited concentrations above the detection limit, unless all samples on the same line were below the detection limit, in which case 'N.D.' is shown.

### 4.2 Respirable Dust

During the course of demolition, no respirable dust levels recorded by the real-time monitors were observed to exceed the voluntary action level at either site. Similarly, no laboratory results for respirable dust samples exceeded the voluntary action level at either site. The highest levels of visual dust occurred during the demolition of the smokestack at the International Harvester site. The dust created when the smokestack fell dissipated in approximately two minutes, and the samples taken during the event showed dust concentrations well below the voluntary action level.

Table 2 presents the laboratory results for all the respirable dust samples taken. The numbers in parentheses represent the number of samples taken. Results are shown only for the samples that exhibited concentrations above the detection limit, unless all samples on the same line were below the detection limit, in which case 'N.D.' is shown.

Table 3 presents the daily ranges for the real-time monitor recordings. It should be noted that during very humid or 'foggy' conditions, the monitors tended to register readings that were consistently higher than expected. This was due to detection of interference in the light-sensing instrument caused by moisture in the air.

### 5.0 CONCLUSION

Air monitoring for lead and particulates was performed during demolition activities at the Dutch Boy and International Harvester sites. Demolition activities began on Tuesday, April 30, 1996, and ended on Thursday, May 23, 1996.

The air monitoring program consisted of continuous real-time monitoring for respirable dust levels and approximately 10 to 20 filter samples for respirable dust and lead per day. Lead concentrations exceeded the established voluntary action level for the site in only one filter sample during the 4-week demolition period. Since the established voluntary lead action level for the project was identified as half the OSHA PEL, this sample result was still within the acceptable range according to OSHA. All other air sample results for lead and respirable dust, as well as real-time monitoring respirable dust levels, were found to be below both the voluntary action levels for the project and OSHA PELs.

## **TABLES**

TABLE 1
Laboratory Results for Lead

Sampling Day, Activity and Location	Lead Concentration µg/m³
Sunday, April 28 - Background Sampling at Dutch Boy (4)	N.D.
Tuesday, April 30 - Setup and Demolition at Dutch Boy, Downwind (3)	N.D.
Tuesday, April 30 - Setup and Demolition at Dutch Boy, Upwind (1)	N.D.
Wednesday, May 1 - Demolition at Dutch Boy, Downwind (3)	5.5_
Wednesday, May 1 - Demolition at Dutch Boy, Upwind (1)	N.D.
Thursday, May 2 - Demolition at Dutch Boy, Downwind (3)	<b>26.1</b> , 3.8
Thursday, May 2 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday Morning, May 3 - Demolition at Dutch Boy, Downwind (3)	8.7, 19, 2.5
Friday Morning, May 3 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday Afternoon, May 3 - Demolition at Dutch Boy, Downwind (3)	8.9, 5.1
Friday Afternoon, May 3 - Demolition at Dutch Boy, Upwind (1)	N.D.
Saturday, May 4 - Demolition at Dutch Boy, Downwind (3)	17, 16, 5.3
Saturday, May 4 - Demolition at Dutch Boy, Upwind (1)	N.D
Monday, May 6 - Demolition at Dutch Boy, Downwind (3)	2.8, 11, 12
Monday, May 6 - Demolition at Dutch Boy, Upwind (1)	N.D.
Tuesday, May 7 - Demolition at Dutch Boy, Downwind (3)	2.1
Tuesday, May 7 - Demolition at Dutch Boy, Upwind (1)	N,D.
Wednesday, May 8 - Demolition at Dutch Boy, Downwind (3)	2.7, 1.4
Wednesday, May 8 - Demolition at Dutch Boy, Upwind (1)	N.D.
Thursday Morning, May 9 - Demolition at Dutch Boy, Downwind (3)	N.D.
Thursday Morning, May 9 - Demolition at Dutch Boy, Upwind (1)	N.D.
Thursday Afternoon, May 9 - Demolition at Dutch Boy, Downwind (3)	N.D.
Thursday Afternoon, May 9 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday Morning, May 10 - Demolition at Dutch Boy, Downwind (3)	7.1
Friday Morning, May 10 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday Afternoon, May 10 - Demolition at Dutch Boy (0)	N.A.
Saturday Morning, May 11 - Demolition at International Harvester, Downwind (4)	N.D.
Saturday Afternoon, May 11 - Demolition at Dutch Boy, Downwind (3)	N.D.
Saturday Afternoon, May 11 - Demolition at Dutch Boy, Upwind (1)	N.D.
Monday, May 13 - Demolition at Dutch Boy, Downwind (3)	N.D.
Monday, May 13 - Demolition at Dutch Boy, Upwind (1)	N.D.

### TABLE 1 (Continued) Laboratory Results for Lead

Sampling Day, Activity and Location	Lead Concentration <i>µ</i> g/m³
Tuesday, May 14 - Demolition at Dutch Boy, Downwind (3)	N.D.
Tuesday, May 14 - Demolition at Dutch Boy, Upwind (1)	N.D.
Wednesday, May 15 - Demolition at Dutch Boy, Downwind (3)	N.D.
Wednesday, May 15 - Demolition at Dutch Boy, Upwind (1)	N.D.
Thursday, May 16 - Demolition at Dutch Boy, Downwind (3)	N.D.
Thursday, May 16 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday, May 17 - Demolition at Dutch Boy, Downwind (3)	1.7
Friday, May 17 - Demolition at Dutch Boy, Upwind (1)	18,1
Saturday, May 18 - Demolition at Dutch Boy, Downwind (3)	2.5, 3.5
Saturday, May 18 - Demolition at Dutch Boy, Upwind (1)	N.D.
Monday, May 20 - Demolition at Dutch Boy, Downwind (3)	5.5, 2.1, 2.5
Monday, May 20 - Demolition at Dutch Boy, Upwind (1)	1.3
Tuesday, May 21 - Demolition at Dutch Boy, Downwind (3)	2.1
Tuesday, May 21 - Demolition at Dutch Boy, Upwind (1)	N.D.
Wednesday, May 22 - Demolition at Dutch Boy, Downwind (4)	4.4
Wednesday, May 22 - Demolition at Dutch Boy, Upwind (0)	N.A.
Thursday, May 23 - Demolition at Dutch Boy (0)	N.A.
Wednesday, June 12 - Background Sampling at Dutch Boy (4)	N.D.

- Numbers in parentheses represent the number of samples collected.
- μg/m³ micrograms per cubic meter.
- The voluntary action level for lead on this project is 25  $\mu$ g/m³. Results which exceed this level are shown in bold.
- The OSHA PEL for lead is 50 μg/m³.
- N.D. All samples analyzed were below quantitation limits.
- N.A. Not Applicable.
- Laboratory Analysis performed by American Medical Laboratories, Inc.

TABLE 2
Laboratory Results for Respirable Dust

Sampling Day, Activity and Location	Respirable Dust Concentration mg/m³
Sunday, April 28 - Baseline Sampling at Dutch Boy (4)	0.048
Tuesday, April 30 - Setup and Demolition at Dutch Boy, Downwind (3)	0.039, 0.055
Tuesday, April 30 - Setup and Demolition at Dutch Boy, Upwind (1)	0.030
Wednesday, May 1 - Demolition at Dutch Boy, Downwind (3)	0.084, 0.119, 0.012
Wednesday, May 1 - Demolition at Dutch Boy, Upwind (1)	0.030
Thursday, May 2 - Demolition at Dutch Boy, Downwind (3)	0.146, 0.017, 0.029
Thursday, May 2 - Demolition at Dutch Boy, Upwind (1)	N.D.
Friday Morning, May 3 - Demolition at Dutch Boy, Downwind (3)	0.14, 0.169
Friday Morning, May 3 - Demolition at Dutch Boy, Upwind (1)	0.017
Friday Afternoon, May 3 - Demolition at Dutch Boy, Downwind (3)	0.048, 0.072, 0.048
Friday Afternoon, May 3 - Demolition at Dutch Boy, Upwind (1)	N.D.
Saturday, May 4 - Demolition at Dutch Boy, Downwind (3)	0.074, 0.170, 0.052
Saturday, May 4 - Demolition at Dutch Boy, Upwind (1)	0.029
Monday, May 6 - Demolition at Dutch Boy, Downwind (3)	0.078, 0.028, 0.073
Monday, May 6 - Demolition at Dutch Boy, Upwind (1)	0.023
Tuesday, May 7 - Demolition at Dutch Boy, Downwind (3)	0.013
Tuesday, May 7 - Demolition at Dutch Boy, Upwind (1)	N.D.
Wednesday, May 8 - Demolition at Dutch Boy, Downwind (3)	1.44, 0.052, 0.035
Wednesday, May 8 - Demolition at Dutch Boy, Upwind (1)	0.105
Thursday Morning, May 9 - Demolition at Dutch Boy, Downwind (3)	0.099, 0.041, 0.064
Thursday Morning, May 9 - Demolition at Dutch Boy, Upwind (1)	0.080
Thursday Afternoon, May 9 - Demolition at Dutch Boy, Downwind (3)	0.19, 0.17
Thursday Afternoon, May 9 - Demolition at Dutch Boy, Upwind (1)	0.053
Friday Morning, May 10 - Demolition at Dutch Boy, Downwind (3)	2.35, 0.031
Friday Morning, May 10 - Demolition at Dutch Boy, Upwind (1)	0.092
Friday Afternoon, May 10 - Demolition at Dutch Boy (0)	N.A.
Saturday Morning, May 11 - Demolition at International Harvester, Downwind (4)	0.702, 0.063
Saturday Afternoon, May 11 - Demolition at Dutch Boy, Downwind (3)	0.046, 0.084, 0.024
Saturday Afternoon, May 11 - Demolition at Dutch Boy, Upwind (1)	0.046
Monday, May 13 - Demolition at Dutch Boy, Downwind (3)	0.057, 0.080, 0.039
Monday, May 13 - Demolition at Dutch Boy, Upwind (1)	0.043
Tuesday, May 14 - Demolition at Dutch Boy, Downwind (3)	0.062, 0.036, 0.038
Tuesday, May 14 - Demolition at Dutch Boy, Upwind (1)	0.021

### TABLE 2 (Continued) Laboratory Results for Respirable Dust

Sampling Day, Activity and Location	Respirable Dust Concentration mg/m³
Wednesday, May 15 - Demolition at Dutch Boy, Downwind (3)	0.059, 0.044, 0.027
Wednesday, May 15 - Demolition at Dutch Boy, Upwind (1)	0.028
Thursday, May 16 - Demolition at Dutch Boy, Downwind (3)	0.035, 0.036, 0.048
Thursday, May 16 - Demolition at Dutch Boy, Upwind (1)	0.020
Friday, May 17 - Demolition at Dutch Boy, Downwind (3)	0.052, 0.041, 0.020
Friday, May 17 - Demolition at Dutch Boy, Upwind (1)	0.026
Saturday, May 18 - Demolition at Dutch Boy, Downwind (3)	0.082, 0.087
Saturday, May 18 - Demolition at Dutch Boy, Upwind (1)	0.075
Monday, May 20 - Demolition at Dutch Boy, Downwind (3)	0.019, 0.013, 0.017
Monday, May 20 - Demolition at Dutch Boy, Upwind (1)	0.010
Tuesday, May 21 - Demolition at Dutch Boy, Downwind (3)	0.026, 0.018
Tuesday, May 21 - Demolition at Dutch Boy, Upwind (1)	N.D.
Tuesday, May 21 - Demolition at International Harvester, Downwind (2)	0.027
Wednesday, May 22 - Demolition at Dutch Boy, Downwind (2)	0.027, 0.042
Wednesday, May 22 - Demolition at Dutch Boy, Upwind (0)	N.A.
Wednesday, May 22 - Demolition at International Harvester, Downwind (3)	N.D.
Thursday, May 23 - Demolition at Dutch Boy (0)	N.A.
Thursday, May 23 - Demolition at International Harvester (0)	N.A.
Wednesday, June 12 - Background Sampling at Dutch Boy (4)	N.D.
Wednesday, June 12 - Background Sampling at International Harvester (4)	0.048

- Numbers in parentheses represent the number of samples collected.
- ▶ mg/m³ milligrams per cubic meter.
- ► The voluntary action level for lead on this project is 2.5 mg/m³.
- The OSHA PEL for respirable dust is 5 mg/m³.
- N.D. All samples analyzed were below quantitation limits.
- N.A. Not Applicable.
- Laboratory Analysis performed by American Medical Laboratories, Inc.

TABLE 3 Real-Time Monitoring Ranges for Respirable Dust

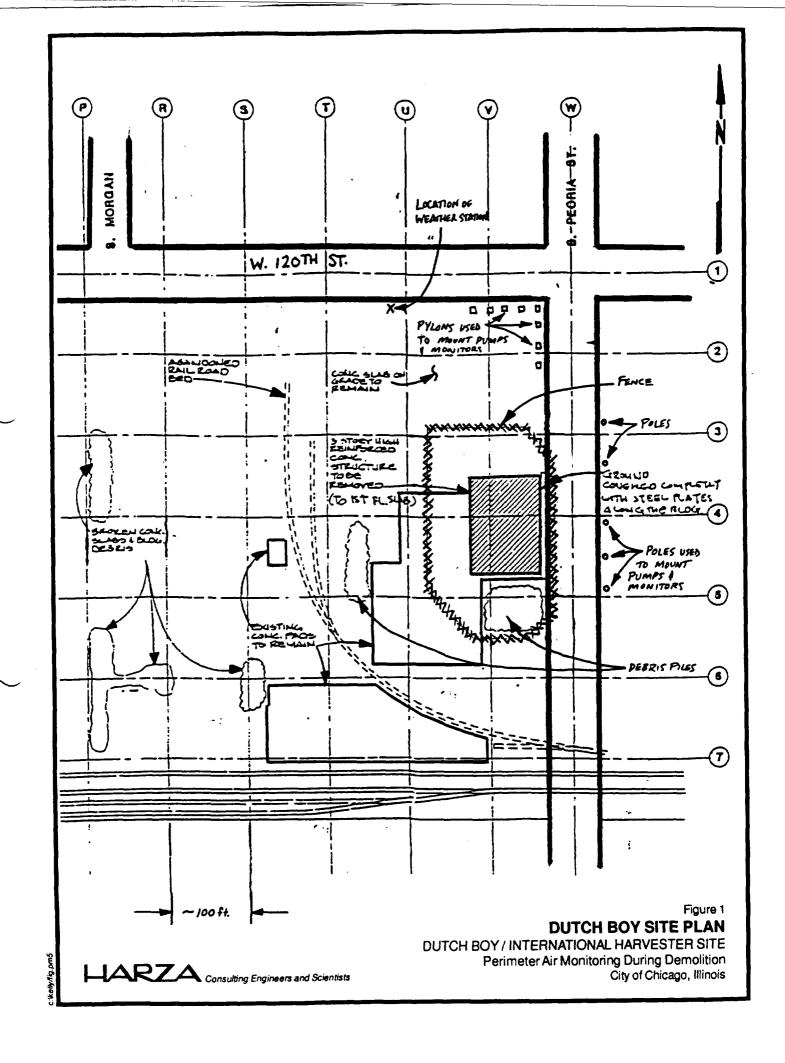
Sampling Day, Activity and Location	Respirable Dust Concentration Range mg/m³
Tuesday, April 30 - Setup and Demolition at Dutch Boy	0.00-0.32
Wednesday, May 1 - Demolition at Dutch Boy	0.00-0.88
Thursday, May 2 - Demolition at Dutch Boy	0.00-1.90
Friday, May 3 - Demolition at Dutch Boy	_0.03-0.57
Saturday, May 4 - Demolition at Dutch Boy	0.04-1.67
Monday, May 6 - Demolition at Dutch Boy	0.01-1.92
Tuesday, May 7 - Demolition at Dutch Boy	0.00-0.23
Wednesday, May 8 - Demolition at Dutch Boy	0.00-1.23
Thursday, May 9 - Demolition at Dutch Boy	0.00-0.63
Friday, May 10 - Demolition at Dutch Boy	0.00-0.39
Saturday Morning, May 11 - Demolition at International Harvester	0.01-1.00
Saturday Afternoon, May 11 - Demolition at Dutch Boy	0.00-0.46
Monday, May 13 - Demolition at Dutch Boy	0.00-0.35
Tuesday, May 14 - Demolition at Dutch Boy	0.00-0.08
Wednesday, May 15 - Demolition at Dutch Boy	0.00-0.54
Thursday, May 16 - Demolition at Dutch Boy	0.00-0.58
Friday, May 17 - Demolition at Dutch Boy	0.00-0.39
Saturday, May 18 - Demolition at Dutch Boy	0.00-0.18
Monday, May 20 - Demolition at Dutch Boy	0.00-0.66
Tuesday, May 21 - Demolition at Dutch Boy	0.00-0.15
Tuesday, May 21 - Demolition at International Harvester	0.00-0.00
Wednesday, May 22 - Demolition at Dutch Boy	0.00-0.18
Wednesday, May 22 - Demolition at International Harvester	0.00-0.10
Thursday, May 23 - Demolition at Dutch Boy	0.00-0.00
Thursday, May 23 - Demolition at International Harvester	0.00-0.00

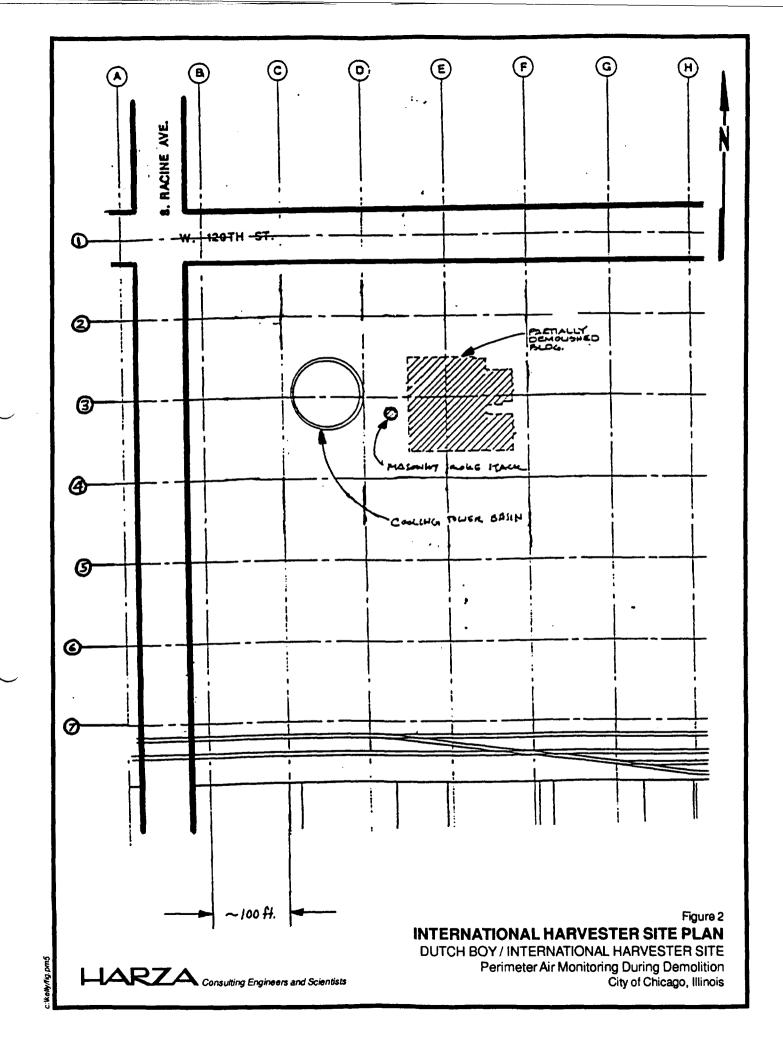
- mg/m³ milligrams per cubic meter.
- The ranges shown represent recordings form all monitors.

  The voluntary action level for lead on this project is 2.5 mg/m³.

  The OSHA PEL for respirable dust is 5 mg/m³.

## **FIGURES**





## **APPENDIX A**



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Laboratory Results Sampling Performed April 28, 1996

Sampling Location	Lead in Air μg/m³	Respirable Dust mg/m³
Background Sampling, East Side of Building, Near Peoria Street, Dutch Boy Site	N.D.	N.D.
Background Sampling, North Side of Building, Near 120th Street, Dutch Boy Site	N.D.	0.048
Background Sampling, West Side of Building, by Ramp, Dutch Boy Site	N.D.	N.D.
Background Sampling, South Side of Building, by Ramp, Dutch Boy Site	N.D.	N.D.

- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 4.0  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.010 mg/m<sup>3</sup> detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is 50 μg/m³.
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Tuesday, April 30, 1996

Sampling Location	Laboratory Analysis		Respirable Dust
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, Northeast Corner of Building, Across Peoria Street, Dutch Boy Site	N.D.	0.039	0.17 - 0.32
Downwind Sampling, East Side of Building, Across Peoria Street, Dutch Boy Site	N.D.	0.055	0.00 - 0.05
Downwind Sampling, Southeast Corner of Building, Across Peoria Street, Dutch Boy Site	N.D.	N.D.	0.00 - 0.04
Upwind Sampling, Northwest Corner of Building, by Ramp, Dutch Boy Site	N.D.	0.030	0.15 - 0.21

- $\mu$ g/m³ micrograms per cubic meter.
- ▶ mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 1.9  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.009 mg/m<sup>3</sup> detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is 50  $\mu$ g/m³.
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



# DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Wednesday, May 1, 1996

Sampling Location	Sampling Location Laboratory Analysis		
	Lead in Air μg/m³	Respirable Dust mg/m³	Real-Time Monitoring Range mg/m³
Downwind Sampling, Northeast Corner of Building, Across Peoria Street, Dutch Boy Site	5.5	0.084	0.09 - 0.88
Downwind Sampling, East Side of Building, Across Peoria Street, Dutch Boy Site	N.D.	0.119	0.00 - 0.00
Downwind Sampling, Southeast Corner of Building, Across Peoria Street, Dutch Boy Site	N.D.	0.012	0.00 - 0.04
Upwind Sampling, Northwest Corner of Building, by Ramp, Dutch Boy Site	N.D.	0.030	0.00 - 0.06

- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 2.1  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.009 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Thursday, May 2, 1996

Sampling Location	Laboratory Analysis		Respirable Dust
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, Northeast Corner of Building, Across Peoria Street, Dutch Boy Site	26.1	0.146	0.06 - 1.90
Downwind Sampling, East Side of Building, Across Peoria Street, Dutch Boy Site	3.8	0.017	-
Downwind Sampling, Southeast Corner of Building, Across Peoria Street, Dutch Boy Site	N.D.	0.029	0.00 - 0.04
Upwind Sampling, Northwest Corner of Building, by Ramp, Dutch Boy Site	N.D.	N.D.	0.00 - 0.04

- μg/m³ micrograms per cubic meter.
- ▶ mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 1.5  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.011 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is 50  $\mu$ g/m³.
- ► The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



# DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Friday Morning, May 3, 1996

Sampling Location	Laboratory Analysis		Respirable Dust
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, Northeast Corner of Building, Across Peoria Street, Dutch Boy Site	8.7	0.14	0.26 - 0.46
Downwind Sampling, East Side of Building, Across Peoria Street, Dutch Boy Site	19	0.169	0.42 - 0.47
Downwind Sampling, Southeast Corner of Building, Across Peoria Street, Dutch Boy Site	2.5	N.D.	0.03 - 0.12
Upwind Sampling, Southwest Corner of Building, on Slab, Near Debris Pile, Dutch Boy Site	N.D.	0.017	0.14 - 0.29

- $\rightarrow$   $\mu$ g/m<sup>3</sup> micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 3.8  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.016 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Friday Afternoon, May 3, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time
	Lead in Air $\mu$ g/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Upwind Sampling, Northeast Corner of Building, Across Peoria Street, Dutch Boy Site	N.D.	N.D.	0.28 - 0.36
Downwind Sampling, South Side of Building, on South Fence, Dutch Boy Site	N.D.	0.048	0.55 - 0.57
Downwind Sampling, Southwest Corner of Building, on Fence, Dutch Boy Site	8.9	0.072	0.05 - 0.11
Downwind Sampling, Southwest Corner of Building, on Slab, Dutch Boy Site	5.1	0.048	0.29 - 0.51

- μg/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 3.8  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.027 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Saturday, May 4, 1996

			- <del></del>			
Sampling Location	Laboratory Analysis		Laboratory Analysis		Respirable Dust Real-Time	
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³			
Upwind Sampling, North Side of Building, on Pylon, Along 120th Street, Dutch Boy Site	N.D.	0.029	0.70 - 0.74			
Downwind Sampling, Southwest Corner of Building, Along West Fence, Dutch Boy Site	17	0.074	0.30 - 1.05			
Downwind Sampling, Southwest Corner of Building, Along South Fence, Dutch Boy Site	16	0.170	0.04 - 0.05			
Downwind Sampling, South Side of Building, Along South Fence, Dutch Boy Site	5.3	0.052	0.39 - 1.67			

- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 2.0  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.015 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is 50  $\mu$ g/m³.
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Monday, May 6, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Upwind Sampling, Northeast of Building, on Pylon, West Side of Peoria Street, Dutch Boy Site	N.D.	0.023	0.03 - 0.11
Downwind Sampling, South Side of Building, on Fence, Dutch Boy Site	2.8	0.078	0.01 - 0.16
Downwind Sampling, Southwest Side of Building, on Fence, Dutch Boy Site	11	0.028	0.01 - 1.92
Downwind Sampling, West of Building, on Fence, Dutch Boy Site	12	0.073	0.01 - 1.08

- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 1.5  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.011 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is 50  $\mu$ g/m<sup>3</sup>.
- ► The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



# DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Tuesday, May 7, 1996

Sampling Location	Laboratory Analysis		Respirable Dust
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Upwind Sampling, Northeast of Building, on Pylon, West Side of Peoria Street, Dutch Boy Site	N.D.	N.D.	0.00 - 0.06
Downwind Sampling, South Side of Building, on Fence, Dutch Boy Site	N.D.	N.D.	0.03 - 0.23
Downwind Sampling, Southwest Side of Building, on Fence, Dutch Boy Site	N.D.	0.013	0.00 - 0.21
Downwind Sampling, West of Building, on Fence, Dutch Boy Site	2.1	N.D.	0.00 - 0.19

- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 1.5  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.011 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is 50 μg/m³.
- ► The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Wednesday, May 8, 1996

Sampling Location	Laboratory Analysis		Respirable Dust
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Upwind Sampling, Northeast of Building, on Pole, East Side of Peoria Street, Dutch Boy Site	N.D.	0.105	0.00 - 1.02
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	2.7	1.44	0.00 - 0.57
Downwind Sampling, West of Building, on Fence, Dutch Boy Site	N.D.	0.052	0.00 - 0.49
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site	1.4	0.035	0.00 - 1.23

- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 1.3  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.011 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



# DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Thursday Morning, May 9, 1996

Sampling Location	Laboratory Analysis		Respirable Dust
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Upwind Sampling, Northeast of Building, on Pole, East Side of Peoria Street, Dutch Boy Site	N.D.	0.080	0.00 - 0.10
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.099	0.00 - 0.29
Downwind Sampling, West of Building, on Fence, Dutch Boy Site	N.D.	0.041	0.00 - 0.63
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site	N.D.	0.064	0.00 - 0.00

- μg/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 4.0  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.032 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is 50  $\mu$ g/m<sup>3</sup>.
- ► The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Thursday Afternoon, May 9, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time	
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³	
Upwind Sampling, South of Building, on Fence, Dutch Boy Site	N.D.	0.053	0.00 - 0.00	
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	N.D.	0.00 - 0.00	
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	N.D.	0.19	0.00 - 0.00	
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.17	0.00 - 0.00	

- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 4.7  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.032 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



# DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Friday Morning, May 10, 1996

Sampling Location	Laboratory Analysis		Respirable Dust
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Upwind Sampling, Southwest of Building, on Plataform, Dutch Boy Site	N.D.	0.092	0.00 - 0.00
Downwind Sampling, East of Building, on Pole, East Side of Peoria Street, Dutch Boy Site	7.1	2.35	0.00 - 0.39
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	N.D.	N.D.	0.00 - 0.02
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	0.031	0.00 - 0.00

- $\mu$ g/m<sup>3</sup> micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 3.2  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.023 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



# DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Friday Afternoon, May 10, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Upwind Sampling, North of Building, on Fence, Dutch Boy Site			0.00 - 0.02
Downwind Sampling, Southeast of Building, on Fence, Dutch Boy Site	<del></del>		0.10 - 1.09
Downwind Sampling, South of Building, on Fence, Dutch Boy Site			0.36 - 0.71
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site			0.00 - 0.17

- no sample sent for analysis due to insufficient volume.
- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Saturday Morning, May 11, 1996

The weather conditions were overcast, approximately 40°F, with winds from the north/northwest at approximately 10-12 miles per hour, at 06:00 a.m. The ground and smokestack were damp from overnight showers. The smokestack demolition started at 06:20 a.m. and ended at 07:05 a.m. Visual observations indicated that the dust created when the smokestack fell dissipated in approximately 2 minutes.

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, Southwest of Smokestack, West End of Railroad Fence, International Harvester Site, Northwest of White School	N.D.	N.D.	0.03 - 0.15
Downwind Sampling, South of Smokestack, Near West End of Railroad Fence, International Harvester Site, North of White School	N.D.	0.702	0.04 - 1.00
Downwind Sampling, South of Smokestack, Near East End of Railroad Fence, International Harvester Site, North of White School	N.D.	0.063	0.03 - 0.05
Downwind Sampling, Southeast of Smokestack, East End of Railroad Fence, International Harvester Site, Northeast of White School	N.D.	<b>N</b> .D.	0.01 - 0.03

- $\mu$ g/m<sup>3</sup> micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 5.7  $\mu$ g/m<sup>3</sup> quantitation limit for lead.
- N.D. Concentration is below the 0.040 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is 50 μg/m³.
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



# DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Saturday Morning, May 11, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time	
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³	
Upwind Sampling, West of Building, on Fence, Dutch Boy Site	N.D.	. 0.046	0.00 - 0.15	
Downwind Sampling, Southeast of Building, on Fence, Dutch Boy Site	N.D.	0.046	0.41 - 0.46	
Downwind Sampling, South of Building, on Fence, Dutch Boy Site	N.D.	0.084	0.23 - 0.36	
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site	N.D.	0.024	0.00 - 0.07	

- $\mu g/m^3$  micrograms per cubic meter.
- ▶ mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 3.5  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.032 mg/m³ detection limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- ► The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



# DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Monday, May 13, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	N.D.	0.057	0.00 - 0.02
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	0.080	0.00 - 0.35
Downwind Sampling, East of Building, on Pole, Dutch Boy Site	N.D.	0.039	0.00 - 0.00
Upwind Sampling, Southwest of Building, on Platform, Dutch Boy Site	N.D.	0.043	0.00 - 0.25

- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 3.0  $\mu$ g/m³ quantitation limit for lead.
- The OSHA Permissible Exposure Level for lead in air is 50  $\mu$ g/m<sup>3</sup>.
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Tuesday, May 14, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.062	0.00 - 0.08
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	N.D.	0.036	0.00 - 0.07
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	0.038	0.00 - 0.03
Upwind Sampling, South of Building, on Platform, Dutch Boy Site	N.D.	0.021	0.00 - 0.05

- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 2.0  $\mu$ g/m³ quantitation limit for lead.
- The OSHA Permissible Exposure Level for lead in air is 50  $\mu$ g/m<sup>3</sup>.
- ► The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Wednesday, May 15, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.059	0.00 - 0.54
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	N.D.	0.044	0.00 - 0.36
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	0.027	0.00 - 0.40
Upwind Sampling, South of Building, on Platform, Dutch Boy Site	N.D.	0.028	0.00 - 0.40

- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 1.4  $\mu$ g/m³ quantitation limit for lead.
- The OSHA Permissible Exposure Level for lead in air is 50  $\mu$ g/m<sup>3</sup>.
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Thursday, May 16, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.035	0.00 - 0.51
Downwind Sampling, West of Building, on Fence, Dutch Boy Site	N.D.	0.036	0.00 - 0.58
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site	N.D.	0.048	0.00 - 0.43
Upwind Sampling, Northeast of Building, on Pole, Dutch Boy Site	N.D.	0.020	0.00 - 0.51

- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 2.2  $\mu$ g/m³ quantitation limit for lead.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Friday, May 17, 1996

Sampling Location	Laboratory Analysis		Respirable Dust
·	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	N.D.	0.052	0.00 - 0.39
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	1.7	0.041	0.00 - 0.33
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.020	0.00 - 0.28
Upwind Sampling, South of Building, on Platform, Dutch Boy Site	18.1	0.026	0.00 - 0.39

- $\mu$ g/m³ micrograms per cubic meter.
- ► mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 1.6  $\mu$ g/m³ quantitation limit for lead.
- The OSHA Permissible Exposure Level for lead in air is 50  $\mu$ g/m³.
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



# DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Saturday, May 18, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, Northeast of Building, on Pole, Dutch Boy Site	2.5	N.D.	0.00 - 0.03
Downwind Sampling, North of Building, on Fence, Dutch Boy Site	3.5	0.082	0.00 - 0.18
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.	0.087	0.00 - 0.08
Upwind Sampling, South of Building, on Platform, Dutch Boy Site	N.D.	0.075	0.00 - 0.15

- $\rightarrow$   $\mu$ g/m<sup>3</sup> micrograms per cubic meter.
- ▶ mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 1.9  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.014 mg/m³ quantitation limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- ► The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



### **DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results** Sampling Performed Monday, May 20, 1996

Sampling Location	Laborato	Laboratory Analysis	
	Lead in Air μg/m³	Respirable Dust mg/m³	Real-Time Monitoring Range mg/m³
Downwind Sampling, Northeast of Building, on Fence, Dutch Boy Site	5.5	0.019	0.00 - 0.38
Downwind Sampling, East of Building, on Fence, Dutch Boy Site	2.1	0.013	0.00 - 0.66
Downwind Sampling, Southeast of Building, on Fence, Dutch Boy Site	2.5	0.017	0.00 - 0.10
Upwind Sampling, West of Building, on Platform, Dutch Boy Site	1.3	0.010	0.00 - 0.11

- $\mu g/m^3$  micrograms per cubic meter. mg/m³ milligrams per cubic meter.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Tuesday, May 21, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, East of Building, on Fence, Dutch Boy Site	2.1	0.026	0.00 - 0.15
Downwind Sampling, Southeast of Building, on South Fence, Dutch Boy Site	N.D.	N.D.	0.00 - 0.03
Downwind Sampling, Southeast of Building, on East Fence, Dutch Boy Site	N.D.	0.018	0.00 - 0.07
Upwind Sampling, West/Northwest of Building, on Platform, Dutch Boy Site	N.D.	N.D.	0.00 - 0.00

- $\rightarrow$   $\mu$ g/m³ micrograms per cubic meter.
- ► mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 3.3  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.024 mg/m³ quantitation limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Tuesday, May 21, 1996

Sampling Location	Laboratory Analysis Respirable Dust mg/m³	Respirable Dust Real-Time Monitoring Range mg/m³
Downwind Sampling, West of Smokestack, International Harvester Site	0.027	0.00 - 0.00
Downwind Sampling, South of Smokestack, International Harvester Site	N.D.	0.00 - 0.00

- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 0.027 mg/m³ quantitation limit for respirable dust.
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Wednesday, May 22, 1996

Sampling Location	Laboratory Analysis		Respirable Dust Real-Time
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, Northwest of Building, on Fence, Dutch Boy Site	N.D.		
Downwind Sampling, Northeast of Building, on South Fence, Dutch Boy Site	4.4		
Downwind Sampling, Southeast of Building, on East Fence, Dutch Boy Site	N.D.	0.027	0.00 - 0.03
Downwind Sampling, Southwest of Building, on Fence, Dutch Boy Site	N.D.	0.042	0.00 - 0.18

- no sampling or real-time monitoring was performed at this location.
- $\mu$ g/m³ micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 1.5  $\mu$ g/m³ quantitation limit for lead.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m<sup>3</sup>.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Wednesday, May 22, 1996

Sampling Location	Laboratory Analysis Respirable Dust mg/m³	Respirable Dust Real-Time Monitoring Range mg/m³
Downwind Sampling, South of Smokestack, International Harvester Site	N.D.	0.00 - 0.00
Downwind Sampling, East of Smokestack, International Harvester Site	N.D.	0.00 - 0.10
Downwind Sampling, Northeast of Smokestack, International Harvester Site	N.D.	

- no real-time monitoring performed at this location.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 0.013 mg/m³ quantitation limit for respirable dust.
- ► The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Thursday, May 23, 1996

Sampling Location	Laboratory Analysis		Respirable Dust
	Lead in Air μg/m³	Respirable Dust mg/m³	Monitoring Range mg/m³
Downwind Sampling, East of Building, on South Fence, Dutch Boy Site			0.00 - 0.00
Downwind Sampling, Southeast of Building, on East Fence, Dutch Boy Site			0.00 - 0.00

- no sample sent for analysis due to steady rain.
- μg/m³ micrograms per cubic meter.
- ► mg/m³ milligrams per cubic meter.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Thursday, May 23, 1996

Sampling Location	Laboratory Analysis Respirable Dust mg/m³	Respirable Dust Real-Time Monitoring Range mg/m³		
Downwind Sampling, South of Smokestack, International Harvester Site		0.00 - 0.00		
Downwind Sampling, Southeast of Smokestack, International Harvester Site		0.00 - 0.00		

- no sample sent for analysis due to steady rain.
- ▶ mg/m³ milligrams per cubic meter.
- ► The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- Real-time monitoring was performed with Miniram Personal Monitors Model PDM-3.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Wednesday, June 12, 1996

Sampling Location	Laboratory Analysis				
	Lead in Air μg/m³	Respirable Dust mg/m³			
Background Sampling, West of Building, on Platform, Dutch Boy Site	N.D.	N.D.			
Background Sampling, South of Building, on Platform, Dutch Boy Site	N.D.	N.D.			
Background Sampling, East of Building, on Platform, Dutch Boy Site	N.D.	N.D.			
Background Sampling, North of Building, on Platform, Dutch Boy Site	N.D.	N.D.			

- $\mu$ g/m<sup>3</sup> micrograms per cubic meter.
- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 3.3  $\mu$ g/m³ quantitation limit for lead.
- N.D. Concentration is below the 0.024 mg/m³ quantitation limit for respirable dust.
- The OSHA Permissible Exposure Level for lead in air is  $50 \mu g/m^3$ .
- ► The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.



## DUTCH BOY/INTERNATIONAL HARVESTER DEMOLITION PROJECT Perimeter Air Sampling Results Sampling Performed Wednesday, June 12, 1996

Sampling Location	Laboratory Analysis Respirable Dust mg/m³
Background Sampling, North of Smokestack, International Harvester Site	N.D.
Background Sampling, East of Smokestack, International Harvester Site	0.048
Background Sampling, South of Smokestack, International Harvester Site	N.D.
Background Sampling, West of Smokestack, International Harvester Site	N.D.

- mg/m³ milligrams per cubic meter.
- N.D. Concentration is below the 0.024 mg/m³ quantitation limit for respirable dust.
- ► The OSHA Permissible Exposure Level for respirable dust is 5 mg/m³.
- The laboratory analysis was performed by American Medical Laboratories, Inc., Chantilly, Virginia.

## **APPENDIX B**

```
AMERICAN MEDICAL LABORATORIES, INC.
```

P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

and sex dependent reference ranges are printed when available ge and sex are designated. Otherwise, adult values are given.

### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/01/96 RECEIVED : 05/01/96 RELEASED : 05/02/96

AML NUMBER-----VALUE-----UNITS------

8532219 042896-04

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

BASELINE/ N. SIDE OF BLDG. Less than quantitation limit.

MASS:

2.0 uq

QUANTITATION LIMIT: CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT: AIR VOLUME:

4.0 uq/M3 LÍTERS 504

RNALYST:

Earl Callender

8532220 042896-05

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: BASELINE/ W. SIDE OF BLDG.

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

CONCENTRATION:

Less than quantitation limit. 4.0

QUANTITATION LIMIT:

uq/M3

AIR VOLUME:

504 LITERS

ANALYST:

Earl Callender

8532221 042896-06

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

BASELINE/ S. SIDE OF BLDG.

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

ug/M3 4.0

AIR VOLUME:

504 LITERS

ANALYST:

Earl Callender

P.O. Box 10841 # 14225 dembrook Drive, Chantilly, Virginia 22021-0841

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and sex dependent reference ranges are printed when available .qe and sex are designated. Otherwise, adult values are given.

### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

**RECEIVED : 05/01/96** 

17551 HARZA ENVIRONMENTAL SYCS. INC. RUDY ANGELUCCI/SEARS TONER

**RELEASED** : 05/02/96

233 S. WACKER DRIVE

**REPORTED : 05/02/96** WORK ORDER: 121963

CHICAGO

, IL 60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8532216 042896-01

BLANK

1592 LEAD (7439-97-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

ANALYST:

Earl Callender

8532217 042896-02

BLANK

1592 LEAD (7439-92-1)

MASS:

QUANTITATION LIMIT:

Less than quantitation limit. 2.0 uq

ANALYST:

Earl Callender

8532218 042896-03

FILTER, AIR

1592 LEAD (7439-9: 1)

SITE/LOCATIC: :

BASELINE/ E. SIDE OF BLOG.

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 uq

CONCENTRATION:

less than quantitation limit.

QUANTITATION LIMIT:

4.0 ug/M3

AIR VOLUME:

504 LITERS

ANALYST:

Earl Callender

```
AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841
                     Telephone: (703) 802-6900
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```

### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/02/96 05/02/96 RELEASED :

17551 HARZA ENVIRONMENTAL SVCS. INC. RUDY ANGELUCCI/SEARS TONER

**REPORTED : 05/02/96** 

233 S. WACKER DRIVE

WORK ORDER:

121968

CHICAGO

. IL 60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8532222 96-4-79

FILTER, AIR

RESPIRABLE DUST 1687 SITE/LOCATION:

BASELINE/EAST SIDE OF BLDG.

DATE COLLECTED:

4-28-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 ng

CONCENTRATION:

Less than Detection Limit.

DETECTION LIMIT: AIR VOLUME:

0.029 mg/H3 357 Liters

ANALYST:

Maria Marino

FILTER, AIR

8532223 96-4-85

1687 RESPIRABLE DUST

BASELINE/NORTH SIDE OF BLDG.

SITE/LOCATION: DATE COLLECTED: MASS:

4-28-96 0.017 mq

DETECTION LIMIT: **CONCENTRATION:** 

0.010 ma 0.048 ma/M3

AIR VOLUME:

357 Liters

ANALYST:

Maria Marino

8532224 96-4-78

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

BASELINE/WEST SIDE OF BLDG.

DATE COLLECTED:

4-28-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 mq

CONCENTRATION:

Less than Detection Limit.

**DETECTION LIMIT:** AIR VOLUME:

0.028 mq/M3

ANALYST:

357 Liters Maria Marino

AMERICAN MEDICAL LABORATORIES, INC. P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900 and sex dependent reference ranges are printed when available .ge and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/01/96 RECEIVED: 05/01/96 RELEASED: 05/02/96

AML NUMBER-----VALUE-----UNITS-----

### NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TNA.

\*\*\* FINAL REPORT \*\*\*

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 72925]-[S 11

> Ira D. Godwin, M.D. Director of Laboratories

AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841
Telephone: (703) 802-6900

and sex dependent reference ranges are printed when available .ge and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/02/96 RECEIVED: 05/02/96 RELEASED: 05/02/96

AML NUMBER------VALUE-----VALUE-----

### NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/MJ as an 8 hour time weighted average (TMA).

\*\*\* FINAL REPORT \*\*\*

### BRYAN MASON

TOTOR, IND. HYGIENE
FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL

1-800-348-1590

[P 72925]-[S 2]

Ira D. Godwin, M.D. Director of Laboratories

PAGE 006

```
AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841
                     Telephone: (703) 802-6900
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   age and sex are designated. Otherwise, adult values are given.
```

INDUSTRIAL HYGIENE DEPARTMENT

RECEIVED : 05/02/96 RECEIVED : 05/02/96 RELEASED : 05/02/96

AML NUMBER-----VALUE-----UNITS-----

8532225 96-4-94 1687 RESPIRABLE DUST FILTER, AIR

SITE/LOCATION:

DATE COLLECTED: MASS:

BASELINE/SOUTH SIDE OF BLDG. 4-28-96

Less than Detection Limit. DETECTION LIMIT: 0.010 CONCENTRATION: Less than Detection Limit.

DETECTION LIMIT: AIR VOLUME:

mg/M3 Liters 0.028 357 Maria Marino

AKALYST:

8532226 96-4-63-BLANK 1687 RESPIRABLE DUST

DATE COLLECTED:

BLANK 4-28-96

BLANK

MASS:

Less than Detection Limit. 0.010

DETECTION LIMIT: ANALYST:

119 Maria Marino

8532227 96-4-73-BLANK

1687 RESPIRABLE DUST

DATE COLLECTED: MASS:

4-28-96 Less than Detection Limit.

DETECTION LIMIT: ANALYST:

0.010 Maria Marino

```
AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841
                      Telephone: (703) 802-6900
```

and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/02/96 RECEIVED: 05/02/96 RELEASED: 05/02/96

AML NUMBER-----VALUE-----UNITS-----

8532213 043096-04

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

FRONT SIDE OF BLDG.

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 uq

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT: AIR VOLUME:

1.8 ug/M3

ANALYST:

1,152 Liters Earl Callender

8532214 043096-05

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

SOUTH EAST CORNER OF BLDG. Less than quantitation limit.

MASS:

2.0

QUANTITATION LIMIT:

ug Less than quantitation limit.

CONCENTRATION: QUANTITATION LIMIT:

1.8 ug/M3

AIR VOLUME:

1,152 Liters

ANALYST:

Earl Callender

8532215 043096-06

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

NORTH WEST CORNER OF BLDG.

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 uq

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

1.9 ug/M3

AIR VOLUME:

1,104 Liters

ANALYST:

Earl Callender

P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

and sex dependent reference ranges are printed when available .ge and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

**RECEIVED : 05/02/96** 17551 HARZA ENVIRONMENTAL SVCS. INC. **RELEASED** : 05/02/96 RUDY ANGELUCCI/SEARS TOWER

**REPORTED : 05/02/96** 

233 S. WACKER DRIVE CHICAGO

WORK ORDER: 121970

, IL

60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER------VALUE-----UNITS-----

8532210 043096-01

BLANK

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 uq

ANALYST:

Earl Callender

8532211 043096-02

BLANK

1592 LEAD (7439-9:-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

ANALYST:

Earl Callender

8532212 043096-03

1592 LEAD (7439-92-1)

FILTER, AIR

SITE/LOCATION:

NORTH EAST CORNER OF BLDG.

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

CONCENTRATION:

Less than quantitation limit.

**CUANTITATION LIMIT:** 

1.8 ug/M3

AIR VOLUME:

1,140 Liters

ANALYST:

Earl Callender

P.O. Box 10841 a 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

**RECEIVED : 05/02/96** 

17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 05/02/96

RUDY ANGELUCCI/SEARS TOWER

REPORTED : WORK ORDER:

05/02/96

233 S. WACKER DRIVE

121969

CHICAGO

60636

PROJECT NAME/JOB IO: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8532228 96-4-67-BLANK

1687 RESPIRABLE DUST

DATE COLLECTED:

4-30-96 Less than Detection Limit.

BLANK

MASS:

**DETECTION LIMIT:** 

0.010

ANALYST:

Maria Marino

mq

~~~2229 96-4-89-BLANK

1687 RESPIRABLE DUST

DATE COLLECTED:

4-30-96 Less than Betection Limit.

BLANK

MASS:

0.010 mg

**DETECTION LIMIT:** 

ANALYST:

Maria Marino

8532230 96-4-87

1687 RESPIRABLE DUST

SITE/LOCATION:

NORTH EAST CORNER OF BLDG. 4-30-96

<u>.</u> تور

FILTER, AIR

DATE COLLECTED: MASS:

0.045 mg 0.010

DETECTION LIKIT:

mg

CONCENTRATION:

mg/M3 0.039 1,140 Liters

AIR VOLUME: ANALYST:

Maria Marino

P.O. Box 10841 \* 14225 Newbrook Orive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/02/96 RECEIVED: 05/02/96 RELEASED: 05/02/96

AML NUMBER-----VALUE-----UNITS-----

**NOTATIONS** 

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 72925]-[S 4]

Ira D. Godwin, M.D. Director of Laboratories

P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

and sex dependent reference ranges are printed when available .ge and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/02/96 RECEIVED : 05/02/96 RELEASED : 05/02/96

AML NUMBER------VALUE-----UNITS-----

### **NOTATIONS**

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TNA).

\*\*\* FINAL REPORT \*\*\*

### BRYAN MASON

PTOCCTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 72925]-[S 31

> Ira D. Godwin, M.D. Director of Laboratories

```
AMERICAN MEDICAL LABORATORIES, INC.
```

P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

and sex dependent reference ranges are printed when available .ge and sex are designated. Otherwise, adult values are given.

### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/02/96 RECEIVED: 05/02/96 RELEASED: 05/02/96

AML NUMBER------VALUE-----UNITS-----

8532231 96-4-64 FILTER, AIR

1687 RESPIRABLE DUST

EAST SIDE OF BLDG. SITE/LOCATION:

4-30-96 DATE COLLECTED:

MASS: 0.063 mq **DETECTION LIMIT:** 0.010 mg

CONCENTRATION: 0.055 mg/K3 AIR VOLUME: 1.152 Liters

ANALYST: Maria Marino

8532232 96-4-97 FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION: SOUTH EAST CORNER OF BLOG.

DATE COLLECTED: 4-30-96

Less than Detection Limit. MASS:

DETECTION LIMIT: 0.010 BQ

CONCENTRATION: Less than Detection Limit.

DETECTION LIKIT: 0.0087 ma/M3 AIR VOLUME: 1.152 Liters

ANALYST: Maria Marino

8532233 96-4-49 FILTER, AIR

1687 RESPIRABLE DUST

NORTH WEST CORNER OF BLDG. SITE/LOCATION:

DATE COLLECTED: 4-30-96

MASS: 0.033 mq

**DETECTION LIMIT:** 0.010 ng

CONCENTRATION: mg/H3 0.030 AIR VOLUME: 1,104 Liters

ANALYST: Maria Marino

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VERIFICATION COPY
KS = 3717/00007
                       INDUSTRIAL HYGIENE DEPARTMENT
      1
                            17551 HARZA ENVIRONMENTAL SVCS. INC.
            05/03/96
  IVED :
                                  RUDY ANGELUCCI/SEARS TOWER
            05/07/96
TLEASED
                                  233 S. WACKER DRIVE
EFORTED :
            05/07/96
                                  CHICAGO
ORK ORDER:
              122084
                                                       60606
ROJECT NAME/JOB ID: 5593 M
                       -----VALUE----UN175-----
ML NUMBER----
         050196-01 FLD BLANK BLANK
8532741
   1592
        LEAD (7439-92-1)
                              Less than quantitation limit.
         MASS:
         QUANTITATION LIMIT:
                              2.0
                                        ug
         ANALYST:
                              Earl Callender
8532742
        050196-02 FLD BLANK
                              BLANK
   1592
        LEAD (7439-92-1)
         MASS:
                              Less than quantitation limit.
         QUANTITATION LIMIT:
                              2.0
                                     ug
         ANALYST:
                              Earl Callender
        050196-03
8532743
                              FILTER, AIR
   1592 LEAD (7439-92-1)
        SITE/LOCATION:
                              NE CORNER OF BLDG
        MASS:
                              7.4
                                       up
         QUANTITATION LIMIT:
                              2.0
                                       ug
                                       up/M3
         CONCENTRATION:
                              5. 5
         AIR VOLUME:
                              1344
                                       LITERS
        ANALYST:
                              Earl Callender
8532744 050196-04
                              FILTER, AIR
  1592 LEAD (7439-92-1)
        SITE/LOCATION:
                              E SIDE OF BLDG
        MASS:
                              Less than quantitation limit.
        QUANTITATION LIMIT:
                              2.0
                                       ug
        CONCENTRATION:
                              Less than quantitation limit.
        QUANTITATION LIMIT:
                              ž. 1
                                       up/M3
        AIR VOLUME:
                              972
                                       LITERS
        ANALYST:
                              Earl Callender
9532745 050196-05
                              FILTER, AIR
  1592 LEAD (7439-92-1)
        SITE/LOCATION:
                              SE CORNER OF BLDG
        MASS:
                              Less than quantitation limit.
        QUANTITATION LIMIT:
                              2.0 ug
        CONCENTRATION:
                              Less than quantitation limit.
        CONTINUED ON NEXT PAGE
```

The State of the S



Consulting Engineers and Scientists

| Date: <u>MAY 2</u> |                                   | KABLE DUST A | Client: (17) | OF CHICAGO      |                |  |  |  |
|--------------------|-----------------------------------|--------------|--------------|-----------------|----------------|--|--|--|
| Day of the weel    | _                                 |              | Durchey Site |                 |                |  |  |  |
|                    | TEPHEN HENNEL                     |              |              |                 |                |  |  |  |
| Sample             | 2880                              | 2467         | 2476         | 2466            |                |  |  |  |
| Location           | E. SIDE OF BLDG.<br>ON E. SIDE OF |              | -            | W. SIDE OF BUG. |                |  |  |  |
|                    | PEORIA STREET  NE CORNER (DW)     | E. 5706 (DW) | SE CONSTON   | SW CORNER (UW)  |                |  |  |  |
| WEATHER COND.      |                                   |              | NOUN, 45°F - | 65°F WINDS FRE  | n rest 8~5mph. |  |  |  |
| 1st Reading        | 0710 / 0.06                       | 0715         | 0715 / 0.00  | 0725 0.01       |                |  |  |  |
| 2nd Reading        | 0810 / 0.59                       | DEAD BAT.    | 0810/000     | 6828/0.04       |                |  |  |  |
| 3rd Reading        | 0905/0.08                         |              | 0905/0.04    | 0915/0.00       |                |  |  |  |
| 4th Reading        | 1015 / 0.24                       |              | 1015/0,00    | 1020/0.01       | •              |  |  |  |
| 5th Reading        | 1110/1.52                         |              | 1115/0.02    | 1120/0,02       |                |  |  |  |
| 6th Reading        | 1200/##                           |              | 1200/ 0.00   | 1210/0,00       |                |  |  |  |
| 7th Reading        | 1300 / .51                        |              | 1300/0.00    | 1310/0.00       |                |  |  |  |
| 8th Reading        | 1430/.56                          |              | 1430/0.00    | 1440/0.00       |                |  |  |  |
| 9th Reading        | 1510/0.61                         |              | 1515/0.00    | 1520 /0.00      |                |  |  |  |
| 10th Reading       | 1625/1.90                         | 1            | 625/0.00     | 1625/0.00       |                |  |  |  |
| Comments           |                                   | DEAD BAT.    |              |                 |                |  |  |  |
| Comments:          |                                   |              |              |                 |                |  |  |  |
|                    |                                   | ( Du ) 3     | 48-1590      | )               |                |  |  |  |
|                    |                                   |              | × 2          |                 |                |  |  |  |
|                    |                                   | G            | ( CO ~ G /-  |                 |                |  |  |  |

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FORM.003

1 1 40

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VERIFICATION COPY
JKS = 3723/00001
                      INDUSTRIAL HYGIENE DEPARTMENT
季つ5 1
                            17551 HARZA ENVIRONMENTAL SUCS. INC.
: .1VED : 05/03/96
                                  RUDY ANGELUCCI/SEARS TOWER
"ELEASED : 05/07/96
                                  233 S. WACKER DRIVE
            05/07/96
REPORTED :
                                  CHICAGO
            122082
JORK ORDER:
                                                      60606
PROJECT NAME/JOB ID: 5593 M
                 -----UNIT5------
"ML NUMBER---
        96-4-77 FLD BLNK BLANK
8532753
         TOTAL WEIGHT
   1676
                              5-1-96
         DATE COLLECTED:
                              Less than Detection Limit.
         MASS:
         DETECTION LIMIT:
                              0.010 mg
                              Maria Marino
         ANALYST:
                   FLD BLNK BLANK
9532754
         96-4-95
  1676
         TOTAL WEIGHT
         DATE COLLECTED:
                              5-1-96
         MASS:
                              Less than Detection Limit.
                              0.010 mg
         DETECTION LIMIT:
         ANALYST:
                              Maria Marino
18532755 96-4-82
                              FILTER, AIR
   1676
        TOTAL WEIGHT
                              NE CORNER OF BLDG.
         SITE/LOCATION:
         DATE COLLECTED:
                              5-1-96
         MASS:
                              Ø. Ø8Ø
                                       mД
         DETECTION LIMIT:
                              0.010
                                       m D
                                       EM\gm
         CONCENTRATION:
                              0.084
         AIR VOLUME:
                              952
                                       LITERS
         ANALYST:
                              Maria Marino
8532756 96-4-65
                             FILTER. AIR
  1676
        TOTAL WEIGHT
         SITE/LOCATION:
                              E SIDE OF BLDG.
         DATE COLLECTED:
                              5-1-96
        MASS:
                              Ø. 112
        DETECTION LIMIT:
                              0.010
                                       mg
        CONCENTRATION:
                              0.119
                                       mp/M3
        AIR VOLUME:
                              944
                                       LITERS
        ANALYST:
                              Maria Marino
3532757
        96-4-76
                             FILTER, AIR
   1676
        TOTAL WEIGHT
        SITE/LOCATION:
                             SE CORNER OF BLDG.
        CONTINUED ON NEXT PAGE
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VERTITICATION CORY

INDUSTRIAL HYGIENE DEPARTMENT

E. . (VED : 05/03/96

17551 HARZA ENVIRONMENTAL SUCS. INC.

RUDY ANGELUCCI/SEARS TOWER

233 S. WACKER DRIVE

EPORTED : 05/07/96 ORK ORDER: 122084

1

CHICAGO

60606

ROJECT NAME/JOB ID: 5593 M

1 

CONTINUED FROM PRIOR PAGE QUANTITATION LIMIT: 1.6

AIR VOLUME: ANALYST:

05/07/96

EM\qu LITERS

1296 Earl Callender

9532746

Ø5Ø196-06

FILTER. AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

NW CORNER OF BLDG

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.Ø ug

CONCENTRATION: QUANTITATION LIMIT:

Less than quantitation limit. 1.6

AIR VOLUME:

EM\gu LITERS

ANALYST:

1284 Earl Callender

CACITATO

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

**MOZAM MAYP** 

TIRECTOR, IND. HYGIENE

KS = 3723/00001

VERIFICATION COPY

INDUSTRIAL HYGIENE DEPARTMENT

1 IVED : 05/03/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

RUDY ANGELUCCI/SEARS TOWER

TLEASED : 05/07/96 EPORTED : 05/07/96 233 S. WACKER DRIVE

CHICAGO

60606

X

ROJECT NAME/JOB ID: 5593 M

122082

I

CONTINUED FROM PRIOR PAGE

RYAN MASON

ORK ORDER:

TRECTOR, IND. HYGIENE

JKS = 3723/00001

VERTFICATION COPY

INDUSTRIAL HYGIENE DEPARTMENT

MICE 2 ? IVED

:

"LEASED

EPORTED

17551 HARZA ENVIRONMENTAL SUCS. INC. Ø5/Ø3/96 05/07/96

RUDY ANGELUCCI/SEARS TOWER

05/07/96 233 S. WACKER DRIVE

JORK ORDER: 122082 CHICAGO IL

60606

ROJECT NAME/JOB ID: 5593 M

3

CONTINUED FROM PRIOR PAGE DATE COLLECTED: 5-1-96

0.011 MASS: A D DETECTION LIMIT: 0.010 R Q CONCENTRATION: 0.012 #0/M3 AIR VOLUME: 918 LITERS

ANALYST: Maria Marino

9532758 96-4-61 FILTER, AIR 1676

TOTAL WEIGHT SITE/LOCATION: NW CORNER OF BLDG.

DATE COLLECTED: 5-1-96 MASS: 0.027 事む DETECTION LIMIT: 0.010 # 5 CONCENTRATION: 0.030 mp/M3 AIR VOLUME: 910 LITERS

ANALYST: Maria Marino

CHOITATC

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client. The analysis for Total Weight is performed by a gravimetric procedure using NIOSH method 0500. Total weight refers to the total mass of particulate present on the filter, and is not compound specific. For particulate not otherwise classified (not covered by a specific standard or mentioned in the Z-1, Z-2 or Z-3 tables) the OSHA permissible exposure limit (PEL) expressed as an 8 hour time weighted average

(TWA) is 15 mg/M3 for total dust and 5 mg/M3 for a respirable fraction sample.

CONTINUED ON NEXT PAGE

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VERTEICATION COPY
KS = 3717/00001
                       INDUSTRIAL HYGIENE DEPARTMENT
$- ...
                            17551 HARZA ENVIRONMENTAL SUCS. INC.
: IVED : 05/03/96
                                  RUDY ANGELUCCI/SEARS TOWER
SLEASED : 05/07/96
EPORTED :
            05/07/96
                                  233 S. WACKER DRIVE
ORK ORDER:
             122085
                                  CHICAGO
                                                      60606
ROJECT NAME/JOB ID: 5593 M
                 3
                       -----VALUE----UNITS-----
ML NUMBER----
8532735 050296-01 FLD BLANK BLANK
   1592 LEAD (7439-92-1)
         MASS:
                              Less than quantitation limit.
         QUANTITATION LIMIT:
                              2.0
                                       u D
         ANALYST:
                              Earl Callender
8532736 050296-02 FLD BLANK
                              BLANK
   1592 LEAD (7439-92-1)
         MASS:
                              Less than quantitation limit.
         QUANTITATION LIMIT:
                              2.0
                                       uo
                              Earl Callender
         ANALYST:
8532737
        050296-03
                              FILTER, AIR
   1592 LEAD (7439-92-1)
         SITE/LOCATION:
                              NE CORNER OF BLDG
                              36.7
                                       ug
         QUANTITATION LIMIT:
                              2.0
                                       ug
                                       EM\gu
        CONCENTRATION:
                             26.1
        AIR VOLUME:
                              1404
                                      LITERS
        ANALYST:
                              Earl Callender
8532738
        050296-04
                             FILTER, AIR
   1592
        LEAD (7439-92-1)
        SITE/LOCATION:
                             E SIDE OF BLDG
        MASS:
                             3.7
                                       ug
        QUANTITATION LIMIT:
                            2.0
        CONCENTRATION
                             3.8
                                      EM\qu
        AIR VULUME:
                              984
                                       LITERS
        ANALYST:
                             Earl Callender
8532739
        Ø50296-Ø5
                             FILTER, AIR
  1592 LEAD (7439-92-1)
        SITE/LUCATION:
                             SE CORNER OF BLDG
        MASS:
                             Less than quantitation limit.
        QUANTITATION LIMIT:
                             2.0
                                    ug
        CONCENTRATION:
                             Less than quantitation limit.
        QUANTITATION LIMIT:
                             1.5
                                      CM\gu
        CONTINUED ON NEXT PAGE
```



Consulting Engineers and Scientists

### RESPIRABLE DUST AIR SAMPLING RECORD

| Date: 5/1/96                                 | Client: CITY OF CHICAGO |
|----------------------------------------------|-------------------------|
| Day of the week: WEDNESDAY                   | DurchBoy Site           |
| Sampled by: STEPIKEN HEMPEL / RUDY ANCELUCCI |                         |
|                                              |                         |

| Sample            | 2467                              | 2466                           | 2876             | 2880             | i |
|-------------------|-----------------------------------|--------------------------------|------------------|------------------|---|
| Location          | E. SIDE OF BLDG<br>ON foles on E. | ESIDE OF BLAG.                 | E. SIDE OF BLOG. | W. 5192 OF       |   |
|                   | SIDE OF STREET                    |                                | DATES. DA        | BLOG. ON PLATERY |   |
| ,                 | NE CORNER (DW)                    | Side of spacet<br>E. Side (bw) | SE COENER (DW)   | NW CORNER (UW)   |   |
| WENTHER CONDITION | SUNNY WINDS FROM                  | n west @ 10.15mp               | 4                |                  |   |
| 1st Reading       | 6710 / 0.19                       | 0715 /0.00                     | 0730 /0.00       | 0740 /0.00       |   |
| 2nd Reading       | 0810 / 0.09                       | 0815 / 0.00                    | 0820 / 0.00      | 0825/0.00        |   |
| 3rd Reading       | 0920/0.36                         | 0920/0.00                      | 0925/0.00        | 0930/0.00        |   |
| 4th Reading       | 1020 / 0.46                       | 1020 /0.00                     | 1025/0.00        | 1030/0.00        |   |
| 5th Reading       | 1115 / 0.88                       | 1/15/0.00                      | 1/20/0.04        | 1/25/0.02        |   |
| 6th Reading       | 1200 /0.43                        | 1200 /0.00                     | 1205/0.00        | 120 / 0.00       |   |
| 7th Reading       | 1315 /0.77                        | 1315/0.00                      | 1320 /0.00       | 1325/0,00        |   |
| 8th Reading       | 1410/0.10                         | 1415/0,00                      | 1420/0.00        | 1425/0,00        |   |
| 9th Reading       | 2466<br>1510 / 0.32               | 2467<br>OFF                    | 1515/0.00        | 1520/0.06        |   |
| 10th Reading      | 1630/0.10                         | OFF                            | 1634 /0.00       | 1635/0.00        |   |
| Comments          |                                   |                                |                  |                  |   |

| Comments: | Zing.       | Edition that |    |                  |    |       |                        |    |          |              |            |
|-----------|-------------|--------------|----|------------------|----|-------|------------------------|----|----------|--------------|------------|
|           | MONHOR 2467 |              |    | RAN OUT OF PUNKS |    |       | AT ~ 1430 . THE MONITO |    |          | MONITER 2466 |            |
|           | WAS         | PLACED       | ٥٧ | 1lk              | NE | CONKA | FOR                    | Th | DURATION | 1 or         | MUNTORING. |

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VERIFICATION COPY
 WKS = 3722/00013
                          INDUSTRIAL HYGIENE DEPARTMENT
' GE 1
                               17551 HARZA ENVIRONMENTAL SVCS. INC.
   CEIVED :
              05/03/96
                                     RUDY ANGELUCCI/SEARS TOWER
              05/07/96
 RELEASED
          .
                                     233 S. WACKER DRIVE
              05/07/96
 REPORTED
           :
                                     CHICAGO
                                                          IL
 WORK ORDER:
                122083
                                                          60606
'PROJECT NAME/JOB ID: 5593 M
                           -----VALUE-----UNITS-----
 AML NUMBER ---
                      FLD BLNK BLANK
  8532747
          96-4-51
           TOTAL WEIGHT
     1676
                                 5-2-96
           DATE COLLECTED:
                                 0.011
           MASS:
                                           mq
                                 0.010
                                           m Cl
           DETECTION LIMIT:
                                 Maria Marino
           ANALYST:
                      FLD BLNK BLANK
  8532748
           96-4-86
     1676
           TOTAL WEIGHT
                                 5-2-96
           DATE COLLECTED:
                                 0.012
           MASS:
                                           B Q
           DETECTION LIMIT:
                                 0.010
                                           m D
                                 Maria Marino
           ANALYST:
  8532749
          96-4-66
                                 FILTER, AIR
     1676
          TOTAL WEIGHT
           SITE/LOCATION:
                                 NE CURNER OF BLDG
           DATE COLLECTED:
                                 5-2-96
                                 0.145
           MASS:
                                           卵口
           DETECTION LIMIT:
                                 0.010
                                          жij
                                 0.146
           CONCENTRATION:
                                           mp/M3
           AIR VOLUME:
                                 995
                                           LITERS
           ANALYST:
                                 Maria Marino
  8532750
          96-4-93
                                 FILTER, AIR
           TOTAL WEIGHT
    1676
           SITE/LOCATION:
                                 E SIDE OF BLDG
           DATE COLLECTED:
                                 5-2-96
           MASS:
                               . 0.017
                                           # 0
           DETECTION LIMIT:
                                 0.010
                                           用口
           CONCENTRATION:
                                 0.017
                                           MD/M3
                                 995
           AIR VOLUME:
                                           LITERS
           ANALYST:
                                 Maria Marino
  8532751
          96-4-56
                                 FILTER, AIR
    1676
          TOTAL WEIGHT
           SITE/LOCATION:
                                SE CORNER OF BLDG
           CONTINUED ON NEXT PAGE
```

THE CONTRACT OF STREET

4KS = 3717/00001

VERIFICATION COPY

INDUSTRIAL HYGIENE DEPARTMENT

STORE &

: IIVED : **05/03/96** 

05/07/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

RUDY ANGELUCCI/SEARS TOWER

233 S. WACKER DRIVE

TEPORTED : JORK ORDER: 122085

CHICAGO

60606

~LEASED : 05/07/96

木OJECT NAME/JOB ID: 5593 M

-----UNITS------'ML NUMBER----

CONTINUED FROM PRIOR PAGE

AIR VOLUME:

1404

LITERS

ANALYST:

Earl Callender

8532740 **050**296-06

1592 LEAD (7439-92-1)

FILTER, AIR

SITE/LUCATION:

SW CORNER OF BLDG

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 up

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

1.5 up/M3

AIR VOLUME:

1392 LITERS Earl Callender

ANALYST: BUTATIONS

> As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

RYAN MASON IRECTOR, IND. HYGIENE WKS = 3722/00013

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INDUSTRIAL HYGIENE DEPARTMENT

GE 3

\_\_CEIVED : 05/03/96

17551 HARZA ENVIRONMENTAL SVCS. INC. RUDY ANGELUCCI/SEARS TOWER

RELEASED : 05/07/96 'REPORTED : 05/07/96

WORK ORDER: 122083

233 S. WACKER DRIVE

CHICAGO

60606

' PROJECT NAME/JOB ID: 5593 M

AML NUMBER------VALUE-----UNITS------

CONTINUED FROM PRIOR PAGE

BRYAN MASON

DIRECTOR, IND. HYGIENE

WKS = 3722/00013

REPORTED ;

WORK DRDER:

# VERTFICATION COPY

### INDUSTRIAL HYGIENE DEPARTMENT

'GE 2 05/03/96 .CEIVED : RELEASED : 05/07/96

17551 HARZA ENVIRONMENTAL SUCS. INC.

RUDY ANGELUCCI/SEARS TOWER 233 S. WACKER DRIVE

05/07/96 122083

CHICAGO

60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER---------UALUE----UNITS------

2

CONTINUED FROM PRIOR PAGE DATE COLLECTED: 5-2-96 MASS: 0.029 # Q DETECTION LIMIT: 0.010 用口 CONCENTRATION: 0.029 mu/M3 AIR VOLUME: 995 LITERS ANALYST: Maria Marino

8532752 96-4-90

TOTAL WEIGHT 1676

SW CORNER OF BLDG SITE/LOCATION:

DATE COLLECTED: 5-2-96 Less than Detection Limit.

DETECTION LIMIT: 0.010 m D

Less than Detection Limit. CONCENTRATION:

DETECTION LIMIT: 0.011 mg/M3 AIR VOLUME: 986 LITERS ANALYST: Maria Marino

TATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

FILTER, AIR

The analysis for Total Weight is performed by a gravimetric procedure using NIOSH method 0500. Total weight refers to the total mass of particulate present on the filter, and is not compound specific. For particulate not otherwise classified (not covered by a specific standard or mentioned in the 2-1, 2-2or 2-3 tables) the OSHA permissible exposure limit (PEL) expressed as an 8 hour time weighted average (TWA) is 15 mg/M3 for total dust and 5 mg/M3 for a respirable fraction sample.

CONTINUED ON NEXT PAGE

P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900

re and sex dependent reference ranges are printed when available 1 age and sex are designated. Otherwise, adult values are given.

### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1 X

17551 HARZA ENVIRONMENTAL SVCS. INC. RECEIVED : 05/07/96 RUDY ANGELUCCI/SEARS TOWER

RELEASED : 05/08/96 233 S. WACKER DRIVE REPORTED : 05/08/96

122199 CHICAGO IL WORK ORDER:

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER------VALUE-----UNITS------

BLANK

8533303 050396-01

8533304

LEAD (7439-92-1) 1592

MASS:

Less than quantitation limit. QUANTITATION LIMIT: 2.0 ug Earl Callender ANALYST:

050396-02 1592 LEAL (7439-92-1)

MASS:

QUANTITATION LIMIT:

2.0 ANALYST: Earl Callender

8533305 050396-03 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: MASS:

QUANTITATION LIMIT: CONCENTRATION:

AIR VOLUME:

ANALYST:

FILTER, AIR

NE CORNER OF BUILDING

ug

Less than quantitation limit.

8.1 ug 2:0 ug 8.7 uq/M3

936 LITERS Earl Callender

8533306 050396-04

LEAD (7439-92-1) 1592

SITE/LOCATION:

MASS: QUANTITATION LIMIT:

CONCENTRATION: AIR VOLUME:

ANALYST:

FILTER, AIR

E SIDE OF-BUILDING

17 uq 2.0 uq

19 ug/M3 912 LITERS Earl Callender



Consulting Engineers and Scientists

# RESPIRABLE DUST AIR SAMPLING RECORD

| )ate: 4/30/       | 196                                |                                | Client: <i>CIT</i> | 1 OF CHICAGO                    |
|-------------------|------------------------------------|--------------------------------|--------------------|---------------------------------|
| ay of the weel    | c: TUESDAY                         |                                | Dur                | CHBOY SITE                      |
| ampled by: 5      | TEPHEN HEMPEL                      | RUBY ANGELUCCI                 | · .                |                                 |
| Sample            | 2466                               | 24 67                          | 2876               | 2880                            |
| Location          | E ,SIDE OF BLDG.<br>ON POLES ON E. |                                |                    | W. SIDE OF BLDG,<br>ON PLETFORM |
|                   | SIDE OF STREET.                    | E SIDE (BW)                    | SE CORNER (DW)     | No corner (UW)                  |
| WEATHER COUDITION | OVERCAST, COLD                     | FROM WEST @ I<br>LIGHT MISTY R | 0-15 Mph (MX 2     | 7), <b>3</b> 8°F                |
| 1st Reading       | 0830 / 0.20                        | 0835 / 0.03                    | 0840 /0.00         | 0845 /0.21                      |
| 2nd Reading       | 0940 / 0.22                        | 0940 / 0.05                    | 0945 /0.00         | 0950 / 0.21                     |
| 3rd Reading       | 1010 / 0,26                        | 1012 / 0.03                    | 1015 / 0.04        | 1020 / 0.19                     |
| 4th Reading       | 1120 / 0.30                        | 1120 /0,04                     | 1125 / 0.00        | 1130 / 217                      |
| 5th Reading       |                                    |                                |                    |                                 |
| 6th Reading       | 1320/0.32                          | 1320 /0.00                     | 1325 / 0.00        | 1330 / 0.17                     |
| 7th Reading       | 145/0.24                           | 1420 / 0.00                    | 1420 / 0,00        | 1425 / 0.15                     |
| 8th Reading       | 1500 / 0.21                        | 1505 /0.00                     | 1510 / 0.00        | 1530 / 0.17                     |
| 9th Reading       | 1545 / 0.26                        | 1550 / 0.00                    |                    |                                 |
| 10th Reading      | 1615 / 0.17                        | 1620 / 0.00                    |                    |                                 |
| Comments          |                                    |                                |                    |                                 |
| omments:          |                                    |                                |                    |                                 |
|                   |                                    |                                |                    |                                 |

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we and sex dependent reference ranges are printed when available Otherwise, adult values are given. age and sex are designated.

INDUSTRIAL HYGIENE DEPARTMENT

3 PAGE

RECEIVED: 05/07/96 RECEIVED: 05/07/96 RELEASED: 05/08/96

AML NUMBER------VALUE-----UNITS-----

8533311 050396-10

FILTER, AIR

1592 LEAD (7439-92-1)

SW OF BUILDING ON SLAB ug

SITE/LOCATION: MASS:

2.7

QUANTITATION LIMIT:

2.0 uq

CONCENTRATION:

5.1 ug/M3

AIR VOLUME:

528 LITERS

ANALYST:

Earl Callender

### NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

### L .'AN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 85209]-[S 9]

```
AMERICAN MEDICAL LABORATORIES, INC.
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  age and sex are designated. Otherwise, adult values are given.
              INDUSTRIAL HYGIENE DEPARTMENT
  PAGE
RECEIVED: 05/07/96 RECEIVED: 05/07/96 RELEASED: 05/08/96
AML NUMBER-------VALUE-----UNITS------
 8533307
                                FILTER, AIR
          050396-05
          LEAD (7439-92-1)
    1592
          SITE/LOCATION:
                                SE CORNER OF BUILDING
                                2.3
          MASS:
                                          ug
          QUANTITATION LIMIT:
                                2.0
                                          ug
          CONCENTRATION:
                                2.5
                                          uq/M3
          AIR VOLUME:
                                912
                                          LITERS
          ANALYST:
                                Earl Callender
8533308
          050396-07
                                FILTER, AIR
    1592
         LEAD (7439-92-1)
          SITE/LOCATION:
                                S OF BUILDING
         MASS:
                                Less than quantitation limit.
          QUANTITATION LIMIT:
                                2.0
                                          ug
          CONCENTRATION:
                                Less than quantitation limit.
          QUANTITATION LIMIT:
                                3.8
                                          uq/M3
         AIR VOLUME:
                                528
                                          LITERS
         ANALYST:
                                Earl Callender
8533309
         050396-08
                                FILTER, AIR
         LEAD (7439-92-1)
   1592
          SITE/LOCATION:
                                SW OF BUILDING ON FENCE
                                4.7
         MASS:
                                          ug
         QUANTITATION LIMIT:
                                2.0
                                          ug
                                          ug/M3
         CONCENTRATION:
                                8.9
         AIR VOLUME:
                                528
                                          LITERS
         ANALYST:
                                Earl Callender
8533310
         050396-09
                                FILTER, AIR
   1592
         LEAD (7439-92-1)
         SITE/LOCATION:
                                NE OF BUILDING ON POLE
         MASS:
                                Less than quantitation limit.
```

- ug

Earl Callender

Less than quantitation limit.

ug/M3

LITERS

2.0

3.8

528

REPORT CONTINUED ON NEXT PAGE...

AIR VOLUME:

ANALYST:

CONCENTRATION:

QUANTITATION LIMIT:

QUANTITATION LIMIT:

```
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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/07/96 RECEIVED: 05/07/96 RELEASED: 05/09/96

AML NUMBER-----VALUE-----UNITS-----

8533321 96-4-53

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

E SIDE OF BUILDING

DATE COLLECTED:

5-3-96 0.109

MASS:

**DETECTION LIMIT:** 

0.010 mq

CONCENTRATION:

mg/M3 0.169

AIR VOLUME:

646 LITERS

ANALYST:

Maria Marino

8533322 96-4-13

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

SE CORNER OF BUILDING

DATE COLLECTED:

5-3-96

MASS:

Less than Detection Limit.

0.010 ng

DETECTION LIMIT: CONCENTRATION:

Less than Detection Limit.

DETECTION LIMIT:

0.016 mq/M3

AIR VOLUME:

LITERS 646

ANALYST:

Maria Marino

8533323 96-4-26

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

SW CORNER OF BUILDING

DATE COLLECTED:

5-3-96

MASS:

0.011

DETECTION LIMIT:

0.010 nq

CONCENTRATION:

0.017 mg/M3

AIR VOLUME:

646 LÎTERS

ANALYST:

Maria Marino

```
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```

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### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

**RECEIVED : 05/07/96** 

17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 05/09/96 REPORTED :

RUDY ANGELUCCI/SEARS TOWER

05/09/96

233 S. WACKER DRIVE

WORK ORDER: 122206 CHICAGO

, IL 60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER------VALUE-----UNITS-----

8533318 96-4-47

BLANK

1687 RESPIRABLE DUST

DATE COLLECTED:

5-3-96

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 nq

ANALYST:

Maria Marino

0573319 96-4-80

FILTER, AIR

.687 RESPIRABLE DUST

DATE COLLECTED:

5-3-96

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 mg

ANALYST:

Maria Marino

8533320 96-4-57

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

NE CORNER OF BUILDING

DATE COLLECTED:

5-3-96

MASS:

0.090 mg

**DETECTION LIMIT:** 

0.010 mg

CONCENTRATION:

0.14 mg/H3 LITERS 663

AIR VOLUME: ANALYST:

Maria Marino

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### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 4

RECEIVED: 05/07/96 RECEIVED: 05/07/96 RELEASED: 05/09/96

ANL NUMBER-----VALUE-----UNITS-----

8533327 96-4-12

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

SW OF BUILDING ON SLAB

DATE COLLECTED:

5-3-96

HASS:

0.018 nq 0.010

DETECTION LIMIT:

mg 0.048 ma/M3

CONCENTRATION: AIR VOLUME:

LITERS

374

ANALYST:

Maria Marino

### NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

\*\*\* FINAL REPORT \*\*\*

### BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL

1-800-348-1590

[P 87815]-[S 11]

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### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/07/96 RECEIVED: 05/07/96 RELEASED: 05/09/96

AML NUMBER------VALUE-----UNITS-----

8533324 96-4-55 FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION: S OF BUILDING ON FENCE

mg

ng

DATE COLLECTED: 5-3-96

MASS: 0.018

DETECTION LIMIT: 0.010 ng 0.048

CONCENTRATION: mq/H3 AIR VOLUME: 374 LITERS

ANALYST: Maria Marino

8533325 96-4-58 FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION: SW OF BUILDING ON FENCE

DATE COLLECTED: 5-3-96

MASS: 0.027

DETECTION LIMIT: 0.010 MQ 0.072 CONCENTRATION: mg/K3

AIR VOLUME: 374 LITERS

Maria Marino ANALYST:

8533326 7598 FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION: NE OF BUILDING ON POLE

DATE COLLECTED: 5-3-96

MASS: Less than Detection Limit.

**DETECTION LIMIT:** 0.010

mg CONCENTRATION: Less than Detection Limit.

**DETECTION LIMIT:** 0.027 mq/H3 AIR VOLUME: 374 LITERS

ANALYST: Maria Marino

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ne and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE

X

05/07/96 17551 HARZA ENVIRONMENTAL SVCS. INC. RECEIVED :

05/08/96 RUDY ANGELUCCI/SEARS TOWER RELEASED :

05/08/96 233 S. WACKER DRIVE REPORTED:

WORK ORDER: 122200 CHICAGO , IL

60606

PROJECT NAME/JOB ID: 5593M

BLANK

8533312 050496-01

> 1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT: 2.0 uq ANALYST: Earl Callender

050496-02 8533313

> LEAD (7439-92-1) 1592

MASS:

Less than quantitation limit.

Less than quantitation limit.

Less than quantitation limit.

uq

QUANTITATION LIMIT: 2.0 ANALYST:

ua Earl Callender

FILTER, AIR

FILTER, AIR

2.0

8533314 050496-03

> 1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

N. OF BUILDING (UW)

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

ANALYST:

2.0 ug/M3 AIR VOLUME: 1,008

LITERS Earl Callender

8533315 050496-04

1592

SITE/LOCATION:

MASS:

LEAD (7439-92-1)

SW OF BUILDING ON W FENCE (DW) 17 ug

Earl Callender

FILTER, AIR

QUANTITATION LIMIT: 2.0 ug CONCENTRATION: 17 ug/M3 AIR VOLUME: 1,008 LITERS ANALYST:



Date:

Consulting Engineers and Scientists

| , RESPIRA | RESPIRABLE DUST AIR SAMPLING RECORD |  |  |  |  |
|-----------|-------------------------------------|--|--|--|--|
| 3/96      | Client: CITY or CHICAGO             |  |  |  |  |
|           |                                     |  |  |  |  |

Day of the week: FRIDAY DUTCHESY ST Sampled by: STEPHEN HEMPEL

| Sample            | 2676                            | 2467                                | 2466                                | 2880                             |                 |
|-------------------|---------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-----------------|
| Location          | NE CORNER OF<br>BUDG. ON EISINE | E. SIDE OF BUG<br>ON POLE           | SE. CORNER OF<br>BLIG. ON POLE      | SW. CORNER OF BLDG. ON           |                 |
|                   | OF ST. CNPOLE (DW)              | (ow)                                | (0w)                                | SIAS NEAR<br>DEBRIS PILL (UN     |                 |
| WEATHER CONSITION | SUNNY, LIGHT                    | WINDS FROM W                        | EST CHANGING TO                     | N/NE IN PM @                     | 5-15mph. ~50°F  |
| 1st Reading       | 0710/0,28                       | 0715/0.47                           | 0720/0.08                           | 0730/0.14                        |                 |
| 2nd Reading       | 0800 / 0.34                     | 0800/0.47                           | 0800 /0.12                          | 0805 /0.26                       |                 |
| 3rd Reading       | 0905/0.26                       | 0905 /0.45                          | 0905/0.12                           | 0915 /0.26                       |                 |
| 4th Reading       | 1000 / 0.30                     | 1010 /0.47                          | 1010 /0.08                          | 1015 /0.26                       |                 |
| 5th Reading       | 1100/0.46                       | 1105 /0.42                          | 1105 /0.03                          | 1110 /0.20                       |                 |
| 6th Reading       | 1200 / 0.42                     | 1205 /0.47                          | 1205 / 0.06                         | 1210 /0.29                       | W.MD<br>CHANCES |
| 7th Reading       | 1320 / 0.36                     | 13.20 / 0.57                        | 1320 /0.08                          | 1325 / 0.31                      | TO N/NE         |
| 8th Reading       | 1420 / 0.35                     | 1415 / 0.55                         | 1415 / 0.07                         | 1410 / 0.29                      |                 |
| 9th Reading       | 1510 /0.30                      | 1505 0.57                           | 1505/0.11                           | 1500 / 0.51                      |                 |
| 10th Reading      | 1720 / 0.28                     | 1715 / 0.57                         | 1715/0.05                           | 1725/0.5/                        |                 |
| Comments.         | NE CORNEZOF<br>BLDG. (UW)       | 5. SIDE OF BUX,<br>ON S. FENCE (DW) | SW CORNER OF<br>BUSH, ON FENCE (DW) | SW CORNER ==<br>BLDG. ON SLAR(AN | )               |

| Comments: | <br> | _           |                                       | <br> | <br>_ |
|-----------|------|-------------|---------------------------------------|------|-------|
|           |      |             |                                       |      |       |
|           |      | <del></del> | · · · · · · · · · · · · · · · · · · · |      |       |

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### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/07/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 05/09/96

RUDY ANGELUCCI/SEARS TOWER 233 S. WACKER DRIVE

**REPORTED : 05/09/96** 

WORK ORDER: 122207

, IL CHICAGO

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8533328 7607

BLANK

1687 RESPIRABLE DUST

DATE COLLECTED:

5-4-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 BQ

ANALYST:

Maria Marino

173329 7621

FILTER, AIR

1687 RESPIRABLE DUST

DATE COLLECTED:

5-4-96

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 mq

ANALYST:

Maria Marino

8533330 96-4-48

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

N OF BUILDING, (UPWIND)

DATE COLLECTED:

5-4-96

MASS:

0.021 ng

**DETECTION LIMIT:** 

0.010 ng

CONCENTRATION:

0.029 mg/H3

AIR VOLUME:

714 LITERS

ANALYST:

Maria Marino

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ne and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/07/96 RECEIVED: 05/07/96 RELEASED: 05/08/96

8533316 050496-05 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: SW OF BUILDING ON S FENCE (DW)

MASS: 16 uq QUANTITATION LIMIT: 2.0 uq 16 996 CONCENTRATION: ug/M3 AIR VOLUME: LITERS Earl Callender ANALYST:

8533317 050496-06 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: S OF BUILDING ON S FENCE (DW)

MASS: 5.3 ug QUANTITATION LIMIT: 2.0 ug CONCENTRATION: 5.3 ug/M3 AIR VOLUME: 996 LITERS ANALYST: Earl Callender

## **NOTATIONS**

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

### BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 85209]-[S 10]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/07/96 RECEIVED : 05/07/96 RELEASED : 05/09/96

AML NUMBER-----VALUE-----UNITS-----

### NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

\*\*\* FINAL REPORT \*\*\*

### **BRYAN MASON**

CTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 87815]-[S 12]

```
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. .ge and sex are designated. Otherwise, adult values are given.
              INDUSTRIAL HYGIENE DEPARTMENT
RECEIVED : 05/07/96 RECEIVED : 05/07/96 RELEASED : 05/09/96
AML NUMBER-----VALUE-----UNITS-----
8533331 96-4-50
1687 RESPIRABLE DUST
                               FILTER, AIR
         SITE/LOCATION:
           SW OF BUILDING ON WESTFENCE (DW)
          DATE COLLECTED:
                                5-4-96
          MASS:
                                0.053
          DETECTION LIHIT:
                                0.010
                                          nġ
         CONCENTRATION:
                                         mg/M3
LITERS
                                0.074
         AIR VOLUME:
                                714
         ANALYST:
                                Maria Marino
                               FILTER, AIR
8533332 96-4-52
   1687 RESPIRABLE DUST
         SITE/LOCATION:
           SW OF BUILDING ON SOUTH FENCE (DW)
         DATE COLLECTED:
                               5-4-96
         MASS:
                               0.120
                                          mg
         DETECTION LIMIT:
                               0.010
                                         mg
                                         mg/H3
         CONCENTRATION:
                               0.170
         AIR VOLUME:
                               706
                                         LITERS
         ANALYST:
                               Maria Marino
8533333 96-4-60
1687 RESPIRABLE DUST
                               FILTER, AIR
         SITE/LOCATION:
                               S OF BUILDING (DW)
         DATE COLLECTED:
                               5-4-96
                               0.037
         MASS:
         DETECTION LIMIT:
                               0.010
                                         ng
         CONCENTRATION:
                               0.052
                                         ng/H3
         AIR VOLUME:
                                         LÍTERS
                               706
         ANALYST:
```

Maria Marino

```
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### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

**RECEIVED** : 05/08/96 RELEASED : 05/10/96 17551 HARZA ENVIRONMENTAL SVCS. INC.

RUDY ANGELUCCI/SEARS TOWER

**REPORTED : 05/10/96** 

233 S. WACKER DRIVE

WORK ORDER:

122270

, IL CHICAGO

60606

PROJECT NAME/JOB ID: 5593M

ANL NUMBER-----VALUE-----UNITS-----

3533768 050696-01

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit. 2.0 ug

QUANTITATION LIMIT: ANALYST:

John Bolejack

BLANK

8533769 050696-02

1592 LEAD (7439-92-1)

Less than quantitation limit.

QUANTITATION LIMIT:

ANALYST:

2.0 นอ John Bolejack

FILTER, AIR

8533770 050696-03

1592 LEAD (7439-92-1)

SITE/LOCATION:

NE OF BLDG (UN)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

**CONCENTRATION:** 

2.0 ug

FILTER, AIR

QUANTITATION LIMIT:

Less than quantitation limit.

1.5 uq/M3

AIR VOLUME:

1,416 LITERS

ANALYST:

John Bolejack

8533771 050696-04

1592 LEAD (7439-92-1)

FILTER, AIR

SITE/LOCATION:

S OF BLDG ON FENCE (DW)

MASS:

3.8 ug

QUANTITATION LIMIT:

2.0 ug

**CONCENTRATION:** 

2.8 ug/M3

AIR VOLUME:

1,404 LITERS

ANALYST:

John Bolejack



Consulting Engineers and Scientists

# RESPIRABLE DUST AIR SAMPLING RECORD

| Date: 5/4/96               | Client: CITY OF CHICAGO |
|----------------------------|-------------------------|
| Day of the week: SATURDAY  | DUTCHBOY SITE           |
| Sampled by: STEPHEN HEMPEL |                         |

| Sample        | 2467 *                          | 2876                       | 2466                        | 2880                     |   |
|---------------|---------------------------------|----------------------------|-----------------------------|--------------------------|---|
| Location      | NORTH & BLOG.                   | SM CORNER OF<br>BLDG. MONG | SW COONER OF<br>BLOCK ALONG | S.SIDE OF<br>BLDG. ALDNG |   |
|               | Arong 120 5T.                   | WEST FELICE (OW)           | SOUTH FENCE<br>(DW)         | S. FEKE<br>(DN)          |   |
| WELTIKE COND. | Coch & DAMP,                    | winds light                | FROM N/NE                   | ~40°F                    |   |
| 1st Reading   | 0715 /.74                       | 0720 ] .34                 | 0725/.05                    | 0730/.55                 |   |
| 2nd Reading   | 0815/.74                        | 0820 / .32                 | 0820 / .05                  | 0820/.57                 |   |
| 3rd Reading   | 0915/.74                        | 0920/.30                   | 0920/.05                    | 0925/.55                 |   |
| 4th Reading   | 1000 / .74                      | 1005/.57                   | BATTERY DEAD                | 1010 / .57               |   |
| 5th Reading   | 1125/.72                        | 1130/1.05                  | 1                           | 1135/1.67                |   |
| 6th Reading   | 1200 /. 70                      | 1205/185                   |                             | 1205/.39                 |   |
| 7th Reading   | 1240/.74                        | 1245/.30                   |                             | 1245/.55                 |   |
| 8th Reading   | 1320/.71                        | 1325/.33                   |                             | 1325/155                 | · |
| 9th Reading   | 1400/.70                        | 1405/,33                   |                             | 1410/.53                 |   |
| 10th Reading  |                                 |                            | <b>V</b>                    |                          |   |
| Comments      | * Suspect instr.<br>Not zeroed. |                            |                             |                          |   |

| Comments: | · |  |  |
|-----------|---|--|--|
|           |   |  |  |
|           |   |  |  |

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### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

**RECEIVED : 05/08/96** RELEASED : 05/09/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

REPORTED : 05/09/96 RUDY ANGELUCCI/SEARS TOWER

WORK ORDER:

233 S. WACKER DRIVE

122272

CHICAGO

, IL 60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS------

8533780 96-5-77

1687 RESPIRABLE DUST

DATE COLLECTED:

MASS:

5-6-96 Less than Detection Limit.

BLANK

DETECTION LIMIT:

0.010 ng

ANALYST:

Maria Marino

FILTER, AIR

73781 96-5-79

1687 RESPIRABLE DUST

DATE COLLECTED:

MASS:

5-6-96 Less than Detection Limit.

0.010 mq

DETECTION LIMIT:

ANALYST:

Maria Marino

8533782 96-4-92

1687 RESPIRABLE DUST

SITE/LOCATION:

NE OF BUILDING ON PILON\*(UW)

DATE COLLECTED:

5-6-96 0.023 ng

FILTER, AIR

MASS:

0.010

**DETECTION LIMIT:** 

mg

CONCENTRATION: AIR VOLUME:

0.023 mq/M3 1,003 LITERS

ANALYST:

Maria Marino

```
AMERICAN MEDICAL LABORATORIES, INC.
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age and sex are designated. Otherwise, adult values are given.
```

### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2
RECEIVED : 05/08/96 RECEIVED : 05/08/96 RELEASED : 05/10/96

AML NUMBER-----VALUE-----UNITS-----

8533772 050696-05 FILTER, AIR 1592 LEAD (7439-92-1) SITE/LOCATION: SW OF BLOG ON FENCE (DW) MRSS: 16 ug QUANTITATION LIMIT: 2.0 ug ug/H3 CONCENTRATION: 11 1,416 AIR VOLUME: LITERS ANALYST: John Bolejack

8533773 050696-06 FILTER, AIR
1592 LEAD (7439-92-1)
SITE/LOCATION: W OF BLDG ON FENCE (DW)
MASS: 17 ug
QUANTITATION LIMIT: 2.0 ug

QUANTITATION LIMIT: 2.0 ug/M3
CONCENTRATION: 12 ug/M3
AIR VOLUME: 1,416 LITERS
ANALYST: John Bolejack

### NOTATIONS

### BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIEME RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 93109]-[S 15]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/08/96 RECEIVED: 05/08/96 RELEASED: 05/09/96

AML NUMBER------VALUE-----UNITS-----

### **NOTATIONS**

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA). \*\*\* FINAL REPORT \*\*\*

BRYAN MASON

TTTCTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 87815]-[S 13]

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a. .ge and sex are designated. Otherwise, adult values are given.
             INDUSTRIAL HYGIENE DEPARTMENT
 PAGE
        2
RECEIVED: 05/08/96 RECEIVED: 05/08/96 RELEASED: 05/09/96
AML NUMBER------VALUE-----UNITS-----
8533783 96-4-62
                               FILTER, AIR
   1687 RESPIRABLE DUST
         SITE/LOCATION:
                               S OF BUILDING ON FENCE (DW)
         DATE COLLECTED:
                               5-6-96
         MASS:
                               0.078
                                        mg
         DETECTION LIMIT:
                               0.010
                                        ng
         CONCENTRATION:
                               0.078
                                         mg/H3
                                        LITERS
         AIR VOLUME:
                               995
         ANALYST:
                               Maria Marino
8533784 96-4-54
                              FILTER, AIR
   1687 RESPIRABLE DUST
         SITE/LOCATION:
                               SW OF BUILDING ON FENCE (DW)
         DATE COLLECTED:
                              5-6-96
         MASS:
                              0.028
                                        mg
         DETECTION LIMIT:
                              0.010
                                        ng
         CONCENTRATION:
                              0.028
                                        mg/M3
         AIR VOLUME:
                              1,003
                                        LITERS
         ANALYST:
                              Maria Marino
                              FILTER, AIR
8533785 96-4-69
   1687 RESPIRABLE DUST
                              W OF BUILDING ON FENCE (DW)
         SITE/LOCATION:
         DATE COLLECTED:
                              5-6-96
         MASS:
                              0.073
                                        ng
         DETECTION LIMIT:
                              0.010
```

ng ng/H3

LITERS

0.073

1.003

Maria Marino

REPORT CONTINUED ON NEXT PAGE...

CONCENTRATION:

AIR VOLUME:

ANALYST:

AMERICAN MEDICAL LABORATORIES, INC. P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/08/96 17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 05/10/96 RUDY ANGELUCCI/SEARS TOWER

**REPORTED : 05/10/96** 

233 S. WACKER DRIVE

WORK ORDER:

122271

CHICAGO

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8533774 050796-01

**BLANK** 

1592 LEAD (7439-92-1)

MASS: QUANTITATION LIMIT: Less than quantitation limit. 2.0 uq

ANALYST:

John Bolejack

8533775 050796-02

FILTER, AIR

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 uq

ANALYST:

John Bolejack

8533776 050796-03

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

NE OF BUILDING ON PILON

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 uq

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

1.5 ug/M3

AIR VOLUME:

1.404 LITERS

ANALYST:

John Bolejack

# HARZA

Consulting Engineers and Scientists

| y of the wee  | k: MONDAY     | , — ————                   | Client: CITY OF CHICAGO  DUTCHBOY SITE |                |             |  |
|---------------|---------------|----------------------------|----------------------------------------|----------------|-------------|--|
|               | STEPHEN HEMPE |                            |                                        | 593 <b>4</b> M |             |  |
| Sample        | 2880          | 2876                       | 2467                                   | 2466           |             |  |
| Location      | NE OF BLOG.   | S SIDE OF BUG,<br>ON FENCE | SW OF BLDG.                            | WEST OF BUDG   | SEE         |  |
|               | PECRUST. (ON) | (ow)                       | (m)                                    | (OW)           | MAP         |  |
| texater Cons. | OVERCAST & CO | OL WINDS FRO               | M N/NE@0-                              | 5mph,~45°F     | <del></del> |  |
| 1st Reading   | 0710 /0.06    | 0715 /0.05                 | 0715/0.14                              | 0720/0.19      |             |  |
| 2nd Reading   | 0810/0.11     | 0815 /0.09                 | 0815 /0.01                             | 0820/0.13      |             |  |
| 3rd Reading   | 0920 /0.05    | 0925 /0.07                 | 0125/0.03                              | 0930 /0.01     |             |  |
| 4th Reading   | 1015/0.07     | 1020 /0.11                 | 1020 /0.05                             | 1025 /0.30     |             |  |
| 5th Reading   | 1115/0.03     | 1120 0.01                  | 1120/0.00                              | 1120 /0.05     |             |  |
| 6th Reading   | 1210 /0.03    | 1210 /0.11                 | 1210 /0.05                             | 1215 /0.12     |             |  |
| 7th Reading   | 1330/0.05     | 1330 /0.08                 | 1330 / 0.08                            | 1335/0.17      |             |  |
| 8th Reading   | 1410/0.05     | 140 /0.10                  | 1410/1.92                              | 1410 / 1.08    | <del></del> |  |
| 9th Reading   | 1505/0.05     | 1510 /0.12                 | 1510 / 0.12                            | 1515 / 0.32    |             |  |
| 10th Reading  | 1830/0.05     | 1630 / 0.16                | 1630 / 0.52                            | 1630 / 0.19    |             |  |
| Comments      |               |                            |                                        |                |             |  |
| mments:       | EACH MONITOR  | WHS ZEROED                 | PRIOR TO SER                           | vice for the 1 | AY.         |  |

FORM.003

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/08/96 RECEIVED : 05/08/96 RELEASED : 05/10/96

AML NUMBER------VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 931091-[S 16]

```
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             INDUSTRIAL HYGIENE DEPARTMENT
 PAGE 2
RECEIVED : 05/08/96 RECEIVED : 05/08/96 RELEASED : 05/10/96
AML NUMBER------VALUE-----UNITS-----
8533777 050796-04
                              FILTER, AIR
   1592 LEAD (7439-92-1)
         SITE/LOCATION:
                              S OF BUILDING ON FENCE
         MASS:
                              Less than quantitation limit.
         QUANTITATION LIMIT:
                              2.0
                                       ug
         CONCENTRATION:
                              Less than quantitation limit.
         QUANTITATION LIMIT:
                              1.5
                                        ug/M3
         AIR VOLUME:
                              1,404
                                       LITERS
         ANALYST:
                              John Bolejack
8533778 050796-05
                              FILTER, AIR
   1592 LEAD (7439-92-1)
         SITE/LOCATION:
                              SW OF BUILDING ON FENCE
         MASS:
                              Less than quantitation limit.
         QUANTITATION LIMIT:
                              2.0
                                       uq
         CONCENTRATION:
                              Less than quantitation limit.
         QUANTITATION LIMIT:
                                       ug/M3
                              1.5
         AIR VOLUME:
                                       LITERS
                              1,404
         ANALYST:
                              John Bolejack
8533779 050796-06
                              FILTER, AIR
   1592 LEAD (7439-92-1)
         SITE/LOCATION:
                              W OF BUILDING ON FENCE
                              2.9
         MASS:
                                       ug
```

2.0

2.1

1,404

John Bolejack

ug ug/M3

LĪTERS

REPORT CONTINUED ON NEXT PAGE...

CONCENTRATION:

AIR VOLUME:

ANALYST:

QUANTITATION LIMIT:

```
AMERICAN MEDICAL LABORATORIES, INC.
```

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### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/08/96 RECEIVED: 05/08/96 RELEASED: 05/09/96

AML NUMBER-----VALUE-----UNITS-----

8533789 96-4-20

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

S OF BUILDING ON FENCE

5-7-96 DATE COLLECTED:

MASS:

Less than Detection Limit.

DETECTION LIMIT: 0.010

CONCENTRATION:

MQ Less than Detection Limit.

DETECTION LIMIT:

0.011 mg/M3

AIR VOLUME: 995

LITERS

ANALYST:

Maria Marino

8533790 96-4-21

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

SW OF BUILDING ON FENCE

DATE COLLECTED:

5-7-96

MASS:

0.013 ng

DETECTION LIKIT:

0.010 ng

CONCENTRATION:

AIR VOLUME:

ng/H3 0.013

995 LÍTERS

ANALYST:

Maria Marino

8533791 96-4-59

FILTER, AIR

1687 RESPIRABLE BUST

SITE/LOCATION:

W OF BUILDING ON FENCE

DATE COLLECTED:

MASS:

5-7-96

Less than Detection Limit.

DETECTION LIMIT:

0.010 ng

CONCENTRATION:

Less than Detection Limit.

DETECTION LIMIT:

ng/M3

AIR VOLUME:

0.011

LITERS 995 Maria Marino

ANALYST:

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Telephone: (703) 802-6900

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

**RECEIVED : 05/08/96** 

17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 05/09/96

RUDY ANGELUCCI/SEARS TOWER

**REPORTED : 05/09/96** 

233 S. WACKER DRIVE

WORK ORDER:

CHICAGO

122273

, IL

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER------VALUE-----UNITS-----

8533786 96-5-75

BLANK

1687 RESPIRABLE DUST

DATE COLLECTED:

5-7-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 mq

ANALYST:

Maria Marino

^~~3787 96-5-100

FILTER, AIR

1687 RESPIRABLE DUST \*\*\*

DATE COLLECTED:

5-7-96

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 mq

ANALYST:

Maria Marino

8533788 7617

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

**NE OF BUILDING ON PILON-**

DATE COLLECTED:

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 BQ

5-7-96

CONCENTRATION:

Less than Detection Limit.

**DETECTION LIMIT:** AIR VOLUME:

mg/M3 0.011

995 LITERS

ANALYST:

Maria Marino

Consulting Engineers and Scientists

# RESPIRABLE DUST AIR SAMPLING RECORD

| Date: 5/       | 1/96<br>TUESDA                | <u> </u>                     | Client: CITY OF CHICAGO |                        |                      |  |
|----------------|-------------------------------|------------------------------|-------------------------|------------------------|----------------------|--|
| Day of the wee |                               | <b>Y</b>                     | DUTCHBOY SITE           |                        |                      |  |
| Sampled by:    | STEPHEN HENRY                 | ٤٢                           | 5593M                   |                        |                      |  |
| Sample         | 2880                          | 2466                         | 2467                    | 2876                   |                      |  |
| Location       | NE CORNEL OF<br>BLDG ON PILON | W. SIDE OF<br>BLOG. ON FENCE | SW. SIDE OF<br>BLDG. CN | 5. SIDE OF<br>BLDG. ON | SE€                  |  |
|                | ALONG PEORIA<br>St. (UW)      | (ow)                         | FENCE (DW)              | FENCE (DW)             |                      |  |
|                |                               |                              |                         |                        |                      |  |
| 1st Reading    | 0730 / a04                    | 0735/0.02                    | 0735   0.09             | 0746 / 0.03            | E SPRINKLING<br>RAIN |  |
| 2nd Reading    | 0900 / 0.06                   | 0900/ 0.00                   | 0905/0.21               | 0905/0.12              |                      |  |
| 3rd Reading    | 1015 / 0.00                   | 1015 / 0.02                  | 1020 / 0.06             | 1020 / 0.10            |                      |  |
| 4th Reading    | 1115 / 0.02                   | 1115/0.09                    | 1120 / 0.09             | 1120 / 0.12            | ·                    |  |
| 5th Reading    | BATTEZY BUT                   | 1210 / 0.00                  | 1210 / 0.00             | 1215 / 0.10            | ·                    |  |
| 6th Reading    |                               | 1310 / 0.13                  | 1310 / 0.01             | 1310 / 0.21            |                      |  |
| 7th Reading    |                               | 1420/0.19                    | 1420/0.04               | 1420 / 0.09            |                      |  |
| 8th Reading    |                               | 1535/0.18                    | 1535 / 0.05             | 1535 / 0.11            |                      |  |
| 9th Reading    |                               | 1600/0.18                    | 1605 / 0.05             | 1605/0.11              |                      |  |
| 10th Reading   | *                             | 1700 / 0.13                  | 1700 / 0.08             | 1700 / 0.23            |                      |  |
| Comments       |                               |                              |                         |                        |                      |  |
| Comments:      | EACH MONITO                   | on was Zeroi                 | ED PRIOR TO             | SBRVICE FOR            | THE DAY.             |  |
|                |                               |                              |                         |                        |                      |  |
|                |                               |                              |                         |                        |                      |  |

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/08/96 RECEIVED : 05/08/96 RELEASED : 05/09/96

AML NUMBER-----VALUE-----UNITS-----

### NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

\*\*\* FINAL REPORT \*\*\*

### **BRYAN MASON**

PTTCTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS. INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 87815]-[S 14]

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a ge and sex are designated. Otherwise, adult values are given.
             INDUSTRIAL HYGIENE DEPARTMENT
 PAGE 2
RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96
AML NUMBER------VALUE-----UNITS-----
8534551 050896-04
                              FILTER, AIR
   1592 LEAD (7439-92-1)
         SITE/LOCATION:
           NW SIDE OF BUILDING ON FENCE (DW)
                              4.3
         MASS:
         QUANTITATION LIMIT:
                              2.0
                                        uq
                                        ua/H3
         CONCENTRATION:
                              2.7
         AIR VOLUME:
                              1,572
                                        LITERS
         ANALYST:
                              Luis Rossi
8534552 050896-05
                              FILTER, AIR
   1592 LEAD (7439-92-1)
         SITE/LOCATION:
           W SIDE OF BUILDING ON FENCE (DW)
         MASS:
                              Less than quantitation limit.
         QUANTITATION LIMIT:
                              2.0
                                       ug
         CONCENTRATION:
                              Less than quantitation limit.
         QUANTITATION LIMIT:
                                       uq/M3
                              1.3
                                       LÍTERS
         AIR VOLUME:
                              1,572
         ANALYST:
                              Luis Rossi
8534553 050896-06
                              FILTER, AIR
   1592 LEAD (7439-92-1)
         SITE/LOCATION:
          SN SIDE OF BUILDING ON FENCE (DN)
         MASS:
                              2.2
                                        uq
         QUANTITATION LIMIT:
                              2.0
                                        uq
         CONCENTRATION:
                                        ug/H3
                              1.4
         AIR VOLUME:
                              1,572
                                       LITERS
         ANALYST:
                              Luis Rossi
```

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AMERICAN MEDICAL LABORATORIES, INC.
```

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/10/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 05/13/96

RUDY ANGELUCCI/SEARS TOWER

**REPORTED : 05/13/96** 

233 S. WACKER DRIVE

WORK ORDER:

122425

CHICAGO , IL

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER------VALUE-----UNITS-----

8534548 050896-01

BLANK

1592 LEAD (7439-92-1)

Less than quantitation limit.

QUANTITATION \_IMIT: 2.0

ANALYST:

uq Luis Rossi

8534549 050896-02

FILTER, AIR

1592 LEAD (7439-91-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

ANALYST:

Luis Rossi

8534550 050896-03

FILTER, AIR

1592 LEAD (7439-9.9-1)

SITE/LOCATION.

NE CORNER ( BUILDING ON POLE (UB)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 uq

Less than quantitation limit.

CONCENTRATION:

1.3 ua/M3

QUANTITATION LIMIT: AIR VOLUME:

1,620 LITERS

ANALYST:

Luis Rossi

```
AMERICAN MEDICAL LABORATORIES, INC.
```

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

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RECEIVED : 05/10/96 RELEASED : 05/13/96

17551 HARZA ENVIRONMENTAL SVCS. INC. RUDY ANGELUCCI/SEARS TOWER

233 S. WACKER DRIVE

REPORTED : 05/13/96 WORK ORDER: 122426

CHICAGO

. IL

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8534532 96-5-74

BLANK

1687 RESPIRABLE DUST

DATE COLLECTED:

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 mg

ANALYST:

Maria Marino

24533 96-5-88

FILTER, AIR

.687 RESPIRABLE DUST DATE COLLECTED:

5-8-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 mq

ANALYST:

Maria Marino

8534534 96-5-95

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

NE CORNER OF BUILDING ON POLE (UN)

DATE COLLECTED:

5-8-96

MASS:

0.120 Bg

**DETECTION LIMIT:** 

0.010 mq

CONCENTRATION: AIR VOLUME:

0.105 mg/H3 1,148 LITERS

ANALYST:

Maria Marino

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and sex dependent reference ranges are printed when available ... .ge and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER------VALUE-----UNITS-----

### NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

# BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 95499]-[S 18]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

#### NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TMA).

\*\*\* FINAL REPORT \*\*\*

# BRYAN MASON

PTTCTOR, IND. HYGIENE
FOR INDUSTRIAL HYGIENE RELATED QUESTIONS,
INCLUDING REQUESTS FOR SUPPLIES, CALL
1-800-348-1590

[P 95499]-[S 19]

Ira D. Godwin; M.D. Director of Laboratories

```
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P.O. Box 10841 * 14225 Newbrook Orive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900
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1. age and sex are designated. Otherwise, adult values are given.
              INDUSTRIAL HYGIENE DEPARTMENT
 PAGE 2
RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96
AML NUMBER------YALUE-----UNITS-----
8534535 96-5-76
                               FILTER, AIR
   1687 RESPIRABLE DUST
         SITE/LOCATION:
           NW SIDE OF BUILDING ON FENCE (DW)
         DATE COLLECTED:
                               5-8-96
         MASS:
                               1.60
                                          mg
         DETECTION LIKIT:
                               0.010
                                         ng
                                         mg/M3
LITERS
         CONCENTRATION:
                               1.44
         AIR VOLUME:
                               1,114
         ANALYST:
                               Maria Harino
8534536 96-5-93
1687 RESPIRABLE DUST
                               FILTER, AIR
         SITE/LOCATION:
           W SIDE OF BUILDING ON FENCE (DW)
         DATE COLLECTED:
                               5-8-96
                               0.058
         MASS:
         DETECTION LIMIT:
                               0.010
                                         BĢ
                                         ng/M3
         CONCENTRATION:
                               0.052
         AIR VOLUME:
                                         LÍTERS
                               1,114
         ANALYST:
                               Maria Marino
8534537 96-5-89
                               FILTER, AIR
   1687 RESPIRABLE BUST
         SITE/LOCATION:
           SW SIDE OF BUILDING ON FENCE (DW)
         DATE COLLECTED:
                               5-8-96
         MASS:
                               0.039
         DETECTION LIMIT:
                               0.010
                                         ng
ng/M3
LITERS
         CONCENTRATION:
                               0.035
         AIR VOLUME:
                               1,114
         ANALYST:
                               Maria Marino
```

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# INDUSTRIA, HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/10/96 **RELEASED** : 05/13/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

05/13/96

RUDY ANGELUCCI/SEARS TOWER 233 S. WACKER DRIVE

REPORTED : WORK ORDER:

122424

CHICAGO

, IL 60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8534554 050996-01

BLANK

MASS:

1592 LEAD (7439-92-1)

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 Luis Rossi

ANALYST:

FILTER, AIR

8534555 050996-02

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

ug

QUANTITATION LIMIT:

2.0

ANALYST:

Luis Rossi

8534556 050996-03

1592 LEAD (7439-92-1)

SITE/LOCATION:

NE CORNER OF BUILDING (UW)

MASS:

Less than quantitation limit.

QUANTITATION \_IMIT:

CONCENTRATION:

2.0 ug Less than quantitation limit.

QUANTITATION LIMIT:

ug/M3 3.8

FILTER, AIR

AIR VOLUME:

LITERS 528

ANALYST:

Luis Rossi



Consulting Engineers and Scientists

# RESPIRABLE DUST AIR SAMPLING RECORD

| Date: 5/8/96               | Client: CITY OF CHICAGO |
|----------------------------|-------------------------|
| Day of the week: WEDNESDAY | DUTCHBOY SITE           |
| Sampled by: STEPHEN HEMPEL | 5593 M                  |

| Samala        | 2000                          | -110                      |                                    | 0111                    |                        |
|---------------|-------------------------------|---------------------------|------------------------------------|-------------------------|------------------------|
| Sample        | 2880                          | 2467                      | 2876                               | 2466                    |                        |
| Location      | NE COUNTY OF<br>BLOG. ON POLL | NW CORNER of<br>BLOG. ON  | W. SIDE OF<br>BLDG. ON             | SW. SIDE OF<br>BLDG. ON | SEE                    |
|               | ON E. SIDE OF PECRIA ST. (VH) | FENCE<br>(DW)             | FENCE<br>(OW)                      | FENCE<br>(DW)           | J MAP                  |
| WEATHER COND. | FOGGY & DAMP<br>RAIN BEGAN AT | upon ARRIVAL, -915 am ASD | NO SIGNIFICANT<br>STOPPED AT ~ 10: |                         |                        |
| 1st Reading   | 0645 / 0.53                   | 0645/0.37                 | 0650 / 0.24                        | 0655/0.59               | NO ACTIVITY O<br>SITE. |
| 2nd Reading   | 0745/1.02                     | 0750 / 0.57               | 0755 0.49                          | 0800/1.23               |                        |
| 3rd Reading   | 0830 / 0.82                   | 0835 / 0.55               | 0835/0.48                          | 0835/0.40               |                        |
| 4th Reading   | 0910 / 0.58                   | 0915/0.37                 | 0915/0.37                          | 0915/0.77               | RAIN BEGIN,            |
| 5th Reading   |                               |                           |                                    |                         | STEADY RAIN PUMPS PULL |
| 6th Reading   | 1830 / 0.37                   | 1035/0.11                 | 1035/0.00                          | 1040/0.00               |                        |
| 7th Reading   | 1200/0.18                     | 1205/ 0.27                | 1205/0.08                          | 1205/ 0.20              |                        |
| 8th Reading   | 1345/0.22                     | 1345/0.02                 | 1345/0.00                          | 1345 0.02               |                        |
| 9th Reading   | 1430/0.06                     | 1430/0.02                 | 1435/0.00                          | 1435/0.00               |                        |
| 10th Reading  | 1620/0.00                     | 1640/0.00                 | 1640/0.00                          | 1640/0.a                |                        |
| Comments      | 1730/0.01                     | 1735/0.00                 | 1735/0.00                          | 1735/0.00               |                        |

| Comments: | · EACH MONITOR WAS ZEROED PRIOR TO SERVICE FOR THE DAY      |
|-----------|-------------------------------------------------------------|
|           | · MONITURS WERE ALSO RE-ZEROED BEFORE BEING PUT BACK IN     |
|           | Service AFRO THE RAIN.                                      |
|           | · MUNITORS WERE PROBABLY READING HIGH IN THE MARNING DUE TO |

FORM.003 HIGH HUMIDITY LEVELS.

```
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#### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/10/96 RECEIVED: 05/10/96 RELEASED: 05/13/96

AML NUMBER-----VALUE-----UNITS-----

8534561 050996-08

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

NE SIDE OF BUILDING (DN) Less than quantitation limit.

MASS: QUANTITATION LIMIT:

2.0 ug

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

4.6 ug/M3

AIR VOLUME:

444 LITERS

ANALYST:

Luis Rossi

8534562 050996-09

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

N SIDE OF BUILDING (DM)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

4.6 ug/H3

AIR VOLUME:

444 LITERS

ANALYST:

Luis Rossi

8534563 050996-10

1592 LEAD (7439-92-1)

FILTER, AIR

SITE/LOCATION:

NW SIDE OF BUILDING (DW)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

ug/M3 4.7

AIR VOLUME:

432 LITERS

ANALYST:

Luis Rossi

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/10/96 RECEIVED: 05/10/96 RELEASED: 05/13/96

AML NUMBER------VALUE-----UNITS------

8534557 050996-04

1592 LEAD (7439-92-1)

SITE/LOCATION:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

FILTER, AIR

NW SIDE OF BUILDING (DW) Less than quantitation limit.

2.0 uq

Less than quantitation limit. uq/M3 3.8

528 LITERS

Luis Rossi

FILTER, AIR

8534558 050996-05

1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

W SIDE OF BUILDING (DW) Less than quantitation limit.

QUANTITATICX LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

2.0 uq

Less than quantitation limit.

3.9 uq/M3

516 LITERS

Luis Rossi

8534559 050996-06

1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME: ANALYST:

FILTER, AIR

SW SIDE OF BUILDING (DW)

Less than quantitation limit.

2.0 ug Less than quantitation limit.

4.0 ug/M3 504 LÍTERS

Luis Rossi

FILTER, AIR

8534560 050996-07

1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

S SIDE OF BUILDING (UN)

QUANTITATION LIMIT:

CONCENTRATION: QUANTITATION LIMIT:

Less than quantitation limit. 2.0 ug Less than quantitation limit.

4.4 ug/M3 456 LITERS

AIR VOLUME: ANALYST:

Luis Rossi

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#### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

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17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 05/13/96

RUDY ANGELUCCI/SEARS TOWER

**REPORTED : 05/13/96** 

233 S. WACKER DRIVE

WORK ORDER:

122427

, IL

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

CHICAGO

8534538 96-5-87

1687 RESPIRABLE DUST

DATE COLLECTED:

MASS:

DETECTION LIMIT:

Less than Detection Limit. 0.010 Da

BLANK

5-9-96

ANALYST:

Maria Marino

"4539 96-5-91

1687 RESPIRABLE DUST

DATE COLLECTED:

MASS:

5-9-96 Less than Detection Limit.

FILTER, AIR

DETECTION LIMIT:

0.010 mq

ANALYST:

Maria Marino

8534540 96-5-96

FILTER, AIR

1687 RESPIRABLE GUST

SITE/LOCATION:

NE SIDE OF BUILDING (UW)

DATE COLLECTED: 5-9-96

MASS:

0.030 ng

**DETECTION LIMIT:** 

0.010 mg

CONCENTRATION:

mg/H3

AIR VOLUME:

0.080

ANALYST:

374 LĪTERS

Maria Marino

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 4

RECEIVED : 05/10/96 RECEIVED : 05/10/96 RELEASED : 05/13/96

AML NUMBER-----VALUE-----UNITS-----

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

**BRYAN MASON** 

DIRECTOR, IND. HYGIENE

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[P 95499]-[S 17]

Ira D. Godwin; M.D. Director of Laboratories

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/10/96 RECEIVED: 05/10/96 RELEASED: 05/13/96

AKL NUMBER-----VALUE-----UNITS-----

8534545 96-5-94

1687 RESPIRABLE DUST

SITE/LOCATION:

NE SIDE OF BUILDING (DW) 5-9-96

FILTER, AIR

DATE COLLECTED: MASS:

DETECTION LIMIT:

Less than Detection Limit. 0.010

CONCENTRATION:

DETECTION LIKIT:

Less than Detection Limit.

AIR VOLUME:

0.032 ma/M3 315 LITERS

Maria Marino ANALYST:

8534546 96-5-99

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

N SIDE OF BUILDING (DW)

DATE COLLECTED:

5-9-96

0.19

315

MASS:

0.059 mg 0.010

DETECTION LIMIT: CONCENTRATION:

ng

AIR VOLUME:

mg/H3

LĪTERS

ANALYST:

Maria Marino

8534547 96-5-101

FILTER, AIR

1687 RESPIRABLE GUST

NW SIDE OF BUILDING (DW)

SITE/LOCATION: DATE COLLECTED:

5-9-96

MASS:

0.053

DETECTION LIBIT:

0.010 mg

CONCENTRATION:

mg/H3 0.17

AIR VOLUME:

306 LITERS

ANALYST:

Maria Marino

```
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              INDUSTRIAL HYGIENE DEPARTMENT
 PAGE
        2
RECEIVED: 05/10/96 RECEIVED: 05/10/96 RELEASED: 05/13/96
AML NUMBER-------VALUE-----UNITS-----
8534541 96-5-90
                               FILTER, AIR
   1687 RESPIRABLE BUST
                               NW SIDE OF BUILDING (DW)
         SITE/LOCATION:
         DATE COLLECTED:
                               5-9-96
         MASS:
                               0.037
                                         mg
         DETECTION LIMIT:
                               0.010
                                         mg
         CONCENTRATION:
                               0.099
                                         mg/H3
         AIR VOLUME:
                               374
                                        LITERS
         ANALYST:
                               Maria Marino
8534542 96-5-81
                              FILTER, AIR
         RESPIRABLE DUST
   1687
         SITE/LOCATION:
                               M SIDE OF BUILDING (DM)
         DATE COLLECTED:
                               5-9-96
         MASS:
                               0.015
                                        ng
         DETECTION LIMIT:
                               0.010
                                        ng
                                        mg/H3
         CONCENTRATION:
                               0.041
                                        LITERS
         AIR VOLUME:
                               366
         ANALYST:
                               Maria Marino
8534543 96-5-102
                              FILTER, AIR
   1687 RESPIRABLE DUST
                               SW SIDE OF BUILDING (DW)
         SITE/LOCATION:
                              5-9-96
         DATE COLLECTED:
         MASS:
                               0.023
                                        nq
         DETECTION LIMIT:
                              0.010
                                        ВQ
         CONCENTRATION:
                              0.064
                                        mg/M3
         AIR VOLUME:
                               357
                                        LITERS
         ANALYST:
                               Maria Marino
8534544 96-5-80
                              FILTER, AIR
   1687 RESPIRABLE DUST
         SITE/LOCATION:
                              S SIDE OF BUILDING (UN)
         DATE COLLECTED:
                              5-9-96
         MASS:
                              0.017
                                        ng
         DETECTION LIMIT:
                              0.010
                                        mq
         CONCENTRATION:
                                        mq/H3
                              0.053
```

323

Maria Marino

LITERS

REPORT CONTINUED ON NEXT PAGE...

AIR VOLUME:

ANALYST:

Consulting Engineers and Scientists

# RESPIRABLE DUST AIR SAMPLING RECORD

| Date:5/        | 19/96                              |                                 | Client: <u>C17</u>                | Y OF CHICAGO                      | <u> </u>       |
|----------------|------------------------------------|---------------------------------|-----------------------------------|-----------------------------------|----------------|
| Day of the wee | k: THURSDAY                        |                                 | Du                                | TCHBOY SITE                       |                |
| Sampled by:    | STEPHEN                            | HEMPEL                          | 53                                | 793 M                             |                |
|                | 1                                  | I                               |                                   | <u></u>                           |                |
| Sample         | 2876                               | 2466                            | 2880                              | 2467                              |                |
| Location       | NE CORNER OF                       | NW CORVER<br>OF BLDG, ON        | W SIDE &<br>BLDG. ON              | SW SIDE OF<br>BLDG ON             | \              |
|                | BLYG. ON POLE<br>ON E. SIDE OF ST. | FENCE (DW)                      | FENCE (DW)                        | FENCE (DW)                        |                |
| WELTHER COND.  | RAINY IN MORN                      | W4, ~50°F, V                    | VINDS LIGHT FI                    | on E,                             |                |
| 1st Reading    | 0655 / 0.02                        | 0700/0.00                       | 0705 / 0.00                       | 0710/0.00                         | 1              |
| 2nd Reading    | 0805/0.10                          | 0800 /0.00                      | 0800 / 0.63                       | 0800/0.00                         | MAP            |
| 3rd Reading    | 0855 0.00                          | 0850/0.29                       | 0850/0.24                         | 0850 /0.00                        |                |
| 4th Reading    | 0940 / 0.00                        | 0945 / 0.24                     | 0945 0.00                         | 0945 0.00                         |                |
| 5th Reading    | 1035/0.00                          | 1040/0.00                       | 1040 /0.00                        | 1040/0.00                         | CHANCE IN      |
| 6th Reading    | 1100 / 0.00                        | 1105/0.00                       | 1110 /0.00                        | 1115/0.00                         | DIRECTION 5/SW |
| 7th Reading    | 1205/0.00                          | 1205/ 0.00                      | 1210 / 0.00                       | 1210/0.00                         |                |
| 8th Reading    | 1300 / 0.00                        | 1305/0.00                       | 1305/0.00                         | 1310/ 0.00                        | SEE            |
| 9th Reading    | 1406 / 0.00                        | 1400 0.00                       | 1405/0.00                         | 1405/0,00                         | MP             |
| 10th Reading   |                                    |                                 |                                   |                                   |                |
| LCCATION       | S. SIDE OF BLOW.                   | NE. SIDE OF BLOC<br>ONFERE (DW) | N. 510E OF (DW)<br>BLDG. ON FENCE | NW SIDE OF (DW)<br>BLDG. ON FENCE |                |
| Comments:      | SAMPLES PV                         |                                 |                                   |                                   |                |
|                |                                    |                                 |                                   |                                   |                |

UJ/ 10/ 30 11.0/ mi

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 4

RECEIVED: 05/10/96 RECEIVED: 05/10/96 RELEASED: 05/13/96

AML NUMBER------VALUE-----UNITS-----

#### NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TMA).

\*\*\* FINAL REPORT \*\*\*

# BRYAN MASON

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[P 95499]-[S 20]

Ira D. Godwin, M.D. Director of Laboratories

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#### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/14/96 RECEIVED: 05/14/96 RELEASED: 05/15/96

AML NUMBER-----VALUE-----UNITS-----

8535309 051096-04 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: E SIDE OF BUILDING (DW)

MASS: 4.5

QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 7.1 ug/M3
AIR VOLUME: 636 LITERS

ANALYST: Earl Callender

8535310 051096-05 FILTER, AIR 1592 LEAD (7439-92-1)

592 LEAD (7439-92-1)
SITE/LOCATION: N SIDE OF BUILDING (DW)

MASS: Less than quantitation limit.

QUANTITATION LIMIT: 2.0 ug

CONCENTRATION: Less than quantitation limit.

QUANTITATION LIMIT: 3.2 ug/M3 AIR VOLUME: 636 LITERS ANALYST: Earl Callender

8535311 051096-06 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: NE SIDE OF BUILDING (DW)
MASS: Less than quantitation limit.

QUANTITATION LIMIT: 2.0 ug

CONCENTRATION: Less than quantitation limit.

QUANTITATION LIMIT: 3.2 ug/M3
AIR VOLUME: 636 LITERS
ANALYST: Earl Callender

P.O. Box 10841 \* 14225 Newbrook Orive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900
Age and sex dependent reference ranges are printed when available if age and sex are designated. Otherwise, adult values are given.

#### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

RECEIVED : 05/14/96 RELEASED : 05/15/96

17551 HARZA ENVIRONMENTAL SVCS. INC. RUDY ANGELUCCI/SEARS TOWER

233 S. WACKER DRIVE

REPORTED 05/15/96 WORK ORDER: 122561

CHICAGO

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER---------VALUE-----UNITS------

8535306 051096-01

1592 LEAD (7439-92-1)

**BLANK** 

MASS: QUANTITATION LIMIT: 3.4 ug ug 2.0

NOTES:

This blank has not been subtracted from the samples.

ANALYST:

Earl Callender

8535307 051096-02

1592 LEAD (7439-92-1) FILTER, AIR

MASS: QUANTITATION LIMIT: Less than quantitation limit. 2.0

ANALYST:

ug Earl Callender

8535308 051096-03

FILTER, AIR

1592 LEAD (7439-92-1) SITE/LOCATION:

SW SIDE OF BUILDING (UW)

MASS: QUANTITATION LIMIT: 3 CONCENTRATION:

Less than quantitation limit. 2.0 иg

QUANTITATION LIMIT:

Less than quantitation limit. ug/M3 3.1

AIR VOLUME:

648 LÍTERS Earl Callender

ANALYST:

P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

he and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

**RECEIVED : 05/14/96** 

17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 05/16/96 **REPORTED** : 05/16/96 RUDY ANGELUCCI/SEARS TOWER 233 S. WACKER DRIVE

WORK ORDER:

122562

CHICAGO

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8535312 96-5-92

BLANK

1687 RESPIRABLE DUST

DATE COLLECTED:

5-10-96

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 nq

ANALYST:

Maria Marino

~535313 96-5-97

FILTER, AIR

1687 RESPIRABLE DUST

DATE COLLECTED:

5-10-96

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 BQ

ANALYST:

Maria Marino

8535314 96-5-78

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

SW SIDE OF BUILDING (UM)

DATE COLLECTED:

5-10-96

MASS:

0.042 ng

DETECTION LIMIT:

0.010 ng

CONCENTRATION:

0.092 mq/H3

AIR VOLUME:

459 LITERS

ANALYST:

Maria Marino

P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available if age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/15/96

AML NUMBER------VALUE-----UNITS------

# **NOTATIONS**

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 392]-[S 21]

Ira D. Godwin, M.D. Director of Laboratories

AMERICAN MEDICAL LABORATORIES, INC.

P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/14/96 RECEIVED: 05/14/96 RELEASED: 05/16/96

AML NUMBER-----VALUE-----UNITS-----

# **NOTATIONS**

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

\*\*\*\* FINAL REPORT \*\*\*\*

# BRYAN MASON

TRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 3066]-[S 23]

Ira D. Godwin, M.D. Director of Laboratories

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AMERICAN MEDICAL LABORATORIES, INC.
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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/16/96

AML NUMBER-----VALUE-----UNITS-----

8535315 96-5-83

FILTER, AIR

1687 RESPIRABLE DUST

E SIDE OF BUILDING (DW) SITE/LOCATION: 5-10-96

DATE COLLECTED:

MASS: DETECTION LIMIT: 1.06 mg

0.010 ng

CONCENTRATION: AIR VOLUME:

2.35 mg/M3 451 LITERS

ANALYST:

Maria Marino

8535316 96-5-84

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

N SIDE OF BUILDING (DW)

DATE COLLECTED: 5-10-96

MASS:

Less than Detection Limit. RQ

DETECTION LIMIT: 0.010

CONCENTRATION:

Less than Detection Limit.

DETECTION LIMIT: AIR VOLUME:

mq/M3 0.023 LÍTERS 451

ANALYST:

Maria Marino

8535317 96-5-85

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

ME SIDE OF BUILDING (DW)

DATE COLLECTED:

MASS:

0.014 вg

5-10-96

DETECTION LIMIT:

0.010 Bg

CONCENTRATION:

0.031

AIR VOLUME:

mg/M3 451 LITERS

ANALYST:

Maria Marino

P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available Otherwise, adult values are given. if age and sex are designated.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1 X

05/14/96 RECEIVED

17551 HARZA ENVIRONMENTAL SVCS. INC. RUDY ANGELUCCI/SEARS TOWER

RELEASED : 05/15/96

233 S. WACKER DRIVE

05/15/96 REPORTED WORK ORDER: 122563

CHICAGO

, IL

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS------

8535328 051196-01

> 1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT: ANALYST:

2.0 ug Earl Callender

FILTER, AIR

FILTER, AIR

**BLANK** 

8535329 051196-02

> LEAD (7439-92-1) 1592

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

ANALYST:

2.0 ug Earl Callender

8535330 051196-03 1592 LEAD (7439-92-1)

SITE/LOCATION:

SW SIDE OF SMOKESTACK W END OF FENCE (DW)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

5.7

AIR VOLUME:

ug/M3

355

LITERS

ANALYST:

Earl Callender

# HARZA

Consulting Engineers and Scientists

| RESPIRABLE DUST AIR SAMPLING RECORD   |                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Date: 5/10/96 Client: CITY 44 CHICAGO |                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Day of the week: FRIDAY               |                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                           | DUTCHBOY SITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| STEPHEN HEN                           | MPEL                                                                                                                                                                                           | 5593 M                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 2467                                  | 2466                                                                                                                                                                                           | 2880                                                                                                                                                                                                                                                                                                                                                      | 2876                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| SW SIDE &                             | E. SIDE OF<br>BLDG. ON                                                                                                                                                                         | N. SIDE OF<br>BUG. ON                                                                                                                                                                                                                                                                                                                                     | NESIDE OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| PUTTFORM (UW)                         | PALE ACROSS                                                                                                                                                                                    | FENCE (DW)                                                                                                                                                                                                                                                                                                                                                | FENCE (DW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| OVERDAST, ~6                          |                                                                                                                                                                                                | SPRINKLES, HU                                                                                                                                                                                                                                                                                                                                             | MID, WIND FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 0700 / 0.00                           | 0705 / 0.02                                                                                                                                                                                    | 0710 /0.00                                                                                                                                                                                                                                                                                                                                                | 0715/0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 0805 /0.00                            | 0805/0.39                                                                                                                                                                                      | 0810 /0.00                                                                                                                                                                                                                                                                                                                                                | 8810 / 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 0910 /0.00                            | 0915/0.08                                                                                                                                                                                      | 0915 /0.00                                                                                                                                                                                                                                                                                                                                                | 0915/0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 1030 0.00                             | 1035/0.29                                                                                                                                                                                      | 1035/0.00                                                                                                                                                                                                                                                                                                                                                 | 1035/0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 1110 /0.00                            | 1/20/0.00                                                                                                                                                                                      | 1120/0.02                                                                                                                                                                                                                                                                                                                                                 | 1120 /0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b></b>                               |                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 1330 /0.02                            | 1335 /0.10                                                                                                                                                                                     | 1335 /0.46                                                                                                                                                                                                                                                                                                                                                | 1335/0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 1420 / 0.00                           | 1425/0.96                                                                                                                                                                                      | 1425/0.34                                                                                                                                                                                                                                                                                                                                                 | 1425/010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 1520/000                              | 1520/0.74                                                                                                                                                                                      | 1525/0.46                                                                                                                                                                                                                                                                                                                                                 | 1525/0.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 1640 / 0.02                           | 1645 /1.09                                                                                                                                                                                     | 1645/0.71                                                                                                                                                                                                                                                                                                                                                 | 1645/0.09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| N. Side of (m)<br>BIDG ON FEXE        | SE SIDE OF<br>BLD4. ON FENCE                                                                                                                                                                   | s side of blud                                                                                                                                                                                                                                                                                                                                            | SW. SIDE OF<br>BLDG. ON FEXE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                       |                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                       |                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|                                       |                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                       | 0/96  C: FRIDAY  STEPHEN HEA  2467  SWI SIDE OF  BUDG, ON  PUTTFORM (UW)  OVERDAST, ~6  O700 / 0.00  0805 /0.00  1030 / 0.00  110 / 0.00  1520 / 0.00  1520 / 0.00  1520 / 0.00  N SIDE OF (W) | 2467 2466  STEPHEN HEMPEL  2467 2466  SM SIDE OF E. SIDE OF BUDG. ON BUDG. ON BUDG. ON POLE ACROSS PEARLY ST. (but OVER CAST, ~60°F, OCCASIONAL  0700 / 0.00 0705 / 0.02  0805 / 0.00 0705 / 0.08  1030 / 0.00 1035 / 0.29  1110 / 0.00 1/20 / 0.00  1320 / 0.02 1335 / 0.10  1420 / 0.00 1425 / 0.96  1520 / 0.02 1645 / 1.09  N SIDE OF (but SE SIDE OF | Client: C1  C: FRIDAY  STEPHEN HEMPEL  53  2467  2466  2880  SW SIDE OF E. SIDE OF BLDG. ON SPENKLES, HU.  OTOU O.OU 0705 O.OZ 0710 O.OU  O805 O.OC 0705 O.OZ 0710 O.OU  O910 O.OU 0705 O.OB 0915 O.OU  O910 O.OU 0715 O.OB 0915 O.OU  1110 O.OU 1120 O.OC 1120 O.OC  1110 O.OU 1120 O.OC 1120 O.OC  1120 O.OC 1520 O.74 1525 O.46  1140 O.OZ 1645 O.74 1525 O.46  1140 O.OZ 1645 O.71  N. SIDE OF WASE SIDE OF SIDE OF SIDE OF SUBLE BLDG. | Client: CITY of CHICAGO  C: FRIDAY  STEPHEN HEMPEL  5593 M  2467  2466  2880  2876  SW SIBE & E. SIBE OF N. SIBE OF BLDG. ON BLDG. ON BLDG. ON BLDG. ON BLDG. ON FENCE (DW)  PLATFORM (UW) PALE ACROSS PERRU ST. (WW)  OVERCAST, ~60°F, OCLASIONAL SPRINKLES, HUMID, WIND FROM  0700   0.00 0705   0.02 0710   0.00 0810   0.00  0805   0.00 0705   0.02 0710   0.00 0810   0.00  0910   0.00 0715   0.08 0915   0.00 0915   0.00  1030   0.00 1035   0.29 1035   0.00   035   0.00  1110   0.00 1120   0.00 1120   0.02 1120   0.00  1320   0.00 1425   0.96 1425   0.46 1335   0.00  1520   0.00 1520   0.74 1525   0.46 1525   0.17  1640   0.02 1645   1.09 1645   0.71 1645   0.09  N. SIDE OF (M) SE SIDE OF SIDE OF SURL SMU. SIDE OF |  |

FORM.003

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AMERICAN MEDICAL LABORATORIES, INC.

Box 10841 * 14225 Newbrook Drive Chartillu. Vi
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P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available if age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/14/96 RECEIVED: 05/14/96 RELEASED: 05/15/96

AML NUMBER-----VALUE-----UNITS-----

8535334 051196-07 FILTER, AIR 1592 LEAD (7439-92-1)

1592 LEAD (7439-92-1) SITE/LOCATION:

SE SIDE OF BUIDING, E END OF FENCE (DW)

MASS: Less than quantitation limit.

QUANTITATION LIMIT: 2.0 ug

CONCENTRATION: Less than quantitation limit.

QUANTITATION LIMIT: 3.5 ug/M3
AIR VOLUME: 588 LITERS
ANALYST: Earl Callender

8535335 051196-08 FILTER, AIR

1592 LEAD (7439-92-1) SITE/LOCATION:

S SIDE OF BUIDING, S SIDE OF FENCE (DW)

MASS: Less than quantitation limit.

QUANTITATION LIMIT: 2.0 ug

CONCENTRATION: Less than quantitation limit.

QUANTITATION LIMIT: 3.5 ug/M3
AIR VOLUME: 588 LITERS
ANALYST: Earl Callender

8535336 051196-09 FILTER, AIR

1592 LEAD (7439-92-1) SITE/LOCATION:

SW SIDE OF BUIDING, S SIDE OF FENCE (DW)

MASS: Less than quantitation limit.

QUANTITATION LIMIT: 2.0 ug

CONCENTRATION: Less than quantitation limit.

QUANTITATION LIMIT: 3.5 ug/M3 AIR VOLUME: 588 LITERS

AIR VOLUME: 588 LÎTERS ANALYST: Earl Callender

```
AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900
Age and sex dependent reference ranges are printed when available if age and sex are designated. Otherwise, adult values are given.
              INDUSTRIAL HYGIENE DEPARTMENT
RECEIVED: 05/14/96 RECEIVED: 05/14/96 RELEASED: 05/15/96
8535331
          051196-04
                                 FILTER, AIR
    1592 LEAD (7439-92-1)
          SITE/LOCATION:
            S SIDE OF SMOKESTACK NEAR W END OF FENCE (DW)
          MASS:
                                 Less than quantitation limit.
          QUANTITATION LIMIT:
                                 2.0
                                           ug
          CONCENTRATION:
                                 Less than quantitation limit.
          QUANTITATION LIMIT:
                                 5.7
                                           ug/M3
                                 355
          AIR VOLUME:
                                           LITERS
          ANALYST:
                                 Earl Callender
                                 FILTER, AIR
8535332 051196-05
   1592
          LEAD (7439-92-1)
          SITE/LOCATION:
            S SIDE OF SMOKESTACK NEAR E END OF FENCE (DW)
          MASS:
                                 Less than quantitation limit.
          QUANTITATION LIMIT:
                                 2.0
                                           uq
          CONCENTRATION:
                                 Less than quantitation limit.
                                 5.7
          QUANTITATION LIMIT:
                                           ug/M3
          AIR VOLUME:
                                 355
                                           LITERS
          ANALYST:
                                 Earl Callender
```

8535333 051196-06 FILTER, AIR 1592 LEAD (7439-92-1) SITE/LOCATION: SE SIDE OF SMOKESTACK E END OF FENCE (DW) MASS: Less than quantitation limit. QUANTITATION LIMIT: 2.0 ug **CONCENTRATION:** Less than quantitation limit. QUANTITATION LIMIT: 5.7 uq/M3 AIR VOLUME: 355 LITERS ANALYST: Earl Callender

P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

are and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/14/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 05/16/96

RUDY ANGELUCCI/SEARS TOWER

REPORTED : 05/16/96

233 S. WACKER DRIVE

WORK ORDER:

122576

CHICAGO

. IL 60606

PROJECT NAME/JOB ID: NOT PROVIDED

AML NUMBER-----VALUE-----UNITS-----

8535318 96-5-113

BLANK

1687 RESPIRABLE DUST

DATE COLLECTED:

5-11-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 mq

ANALYST:

Maria Marino

`535319 96-5-64

BLANK

1687 RESPIRABLE DUST

DATE COLLECTED:

5-11-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 mq

ANALYST:

Maria Marino

8535320 96-5-73

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

SW SIDE OF SMOKE STACK, W. END OF FENCE, JON

DATE COLLECTED:

5-11-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 mg

CONCENTRATION:

Less than Detection Limit.

DETECTION LIMIT:

0.040 mg/M3

AIR VOLUME:

252 LITERS

ANALYST:

Maria Marino

P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE

1592

RECEIVED: 05/14/96 RECEIVED: 05/14/96 RELEASED: 05/15/96

8535337 051196-10

LEAD (7439-92-1)

SITE/LOCATION:

W SIDE OF BUIDING, W SIDE OF FENCE (UW)

MASS:

Less than quantitation limit. QUANTITATION LIMIT: 2.0 ug

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

3.5 ug/M3

AIR VOLUME:

588 LITERS

FILTER, AIR

ANALYST:

Earl Callender

#### NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA. \*\*\* FINAL REPORT \*\*\*

#### BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS. INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 3921-[S 22]

> Ira D. Godwin, M.D. Director of Laboratories

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AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841
                     Telephone: (703) 802-6900
  re and sex dependent reference ranges are printed when available
   age and sex are designated. Otherwise, adult values are given.
             INDUSTRIAL HYGIENE DEPARTMENT
  PAGE 3
RECEIVED: 05/14/96 RECEIVED: 05/14/96 RELEASED: 05/16/96
AML NUMBER-----VALUE-----UNITS-----
8535324 96-5-70
                               FILTER, AIR
   1687 RESPIRABLE DUST
         SITE/LOCATION:
           SE SIDE OF BUILDING, E. SIDE OF FENCE, DW
         DATE COLLECTED:
                              5-11-96
         MASS:
                              0.019
                                        mq
         DETECTION LIMIT:
                              0.010
                                        ng
         CONCENTRATION:
                              0.046
                                        ma/M3
         AIR VOLUME:
                              417
                                        LITERS
         ANALYST:
                              Maria Marino
8535325 96-5-65
                              FILTER, AIR
   1687 RESPIRABLE DUST
         SITE/LOCATION:
           S. SIDE OF BUILDING, S. SIDE OF FENCE, DW
         DATE COLLECTED:
                              5-11-96
                              0.035
         MASS:
                                        ng
         DETECTION LIMIT:
                              0.010
                                        BQ
                              0.084
         CONCENTRATION:
                                        mg/M3 .
         AIR VOLUME:
                              417
                                        LITERS
         ANALYST:
                              Maria Marino
```

8535326 96-5-71 FILTER, AIR 1687 RESPIRABLE BUST SITE/LOCATION:

SW SIDE OF BUILDING, S. SIDE OF FENCE, DW TDATE COLLECTED: 5-11-96

MASS: Less than Detection Limit.

DETECTION LIMIT: 0.010 mg
CONCENTRATION: Less than Detection Limit.

DETECTION LIMIT: 0.024 mg/M3
AIR VOLUME: 417 LITERS
ANALYST: Maria Marino

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AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841
                     Telephone: (703) 802-6900
 The and sex dependent reference ranges are printed when available
   age and sex are designated. Otherwise, adult values are given.
             INDUSTRIAL HYGIENE DEPARTMENT
  PAGE 2
RECEIVED: 05/14/96 RECEIVED: 05/14/96 RELEASED: 05/16/96
AML NUMBER------VALUE-----UNITS------
 8535321 96-5-103
                               FILTER, AIR
   1687 RESPIRABLE DUST
         SITE/LOCATION:
           S. SIDE OF SMOKE STACK NEAR W. END OF FENCE, DN
         DATE COLLECTED:
                               5-11-96
                               0.177
         MASS:
                                        Bg
         DETECTION LIMIT:
                              0.010
                                        ng
         CONCENTRATION:
                              0.702
                                        mg/M3
         AIR VOLUME:
                                        LÍTERS
                              252
         ANALYST:
                              Maria Marino
8535322 96-5-82
                              FILTER, AIR
   1687 RESPIRABLE DUST
         SITE/LOCATION:
           S. SIDE OF SMOKE STACK NEAR E. END OF FENCE, DW
         DATE COLLECTED:
                              5-11-96
                              0.016
         MASS:
                                        mq
         DETECTION LIMIT:
                              0.010
                                        ng
                                        mq/M3
         CONCENTRATION:
                              0.063
         AIR VOLUME:
                              252
                                        LITERS
         ANALYST:
                              Maria Marino
8535323 96-5-86
                              FILTER, AIR
   1687 RESPIRABLE DUST
         SITE/LOCATION:
           SE SIDE OF SMOKE STACK, E. END OF FENCE, DM
         DATE COLLECTED:
                              5-11-96
                              Less than Detection Limit.
         MASS:
         DETECTION LIMIT:
                              0.010
                                        mg
```

Less than Detection Limit.

mq/M3

LITERS

0.040

Maria Marino

252

REPORT CONTINUED ON NEXT PAGE...

CONCENTRATION:

AIR VOLUME:

ANALYST:

**DETECTION LIMIT:** 

# RESPIRABLE DUST AIR SAMPLING RECORD

| Date: 05/11/96             | Client: CITY OF CHICAGO |
|----------------------------|-------------------------|
| Day of the week: SATURDAY  | DUTCHBOY IH SITES       |
| Sampled by: RUDY ASSELUCCO | 5593 M                  |
|                            |                         |

|              | <del>,</del>             |                                    |                          |                        |                            |
|--------------|--------------------------|------------------------------------|--------------------------|------------------------|----------------------------|
| Sample       | 2466                     | 2880                               | 2876                     | 2467                   |                            |
| Location     | SU SIDE OF<br>SMOKESTACY | S. SIDE OF<br>SMOYESTACY           | S. SIDE OF<br>SMOYESTALY | SE SIDE OF             | OVERCAST<br>40°F, WIND     |
|              | W.END OF<br>REFENCE      | NEAR W. GAD<br>OF RK FLOXE         | NEARE, END<br>OF RRTENCE | E. END OF<br>RR TENCE  | From ~~~<br>10-12 mph      |
|              | DUEIZE DE-               | DURING DE-                         | Dieis6 Dus<br>Demoural   | DURING DW<br>DEMOUTION | SMUXESTACY<br>TELL AT 0705 |
| 1st Reading  | 0.03                     | 0609 0.04                          | ED.0/5130                | 0615/0.01              | INTERNSTIONS               |
| 2nd Reading  | 0710 0.15                | 0713 1.00                          | 076 0.05                 | 0719 0.03              | HOWESTER                   |
| 3rd Reading  | 0.43                     | 0903/0.28                          | 0906/003                 | 0909/0.05              | OVERUST                    |
| 4th Reading  | 1000/0.44                | 1003/0.36                          | 1006/0.07                | 1009 0.03              | SOF, WIND                  |
| 5th Reading  | 1100 0.41                | 1103/0.23                          | 1106/0.00                | 00.0/19011             | 10-12 mph                  |
| 6th Reading  | 1140 0.46                | 1143 0.27                          | 1146/0.00                | 11:49 0.15             |                            |
| 7th Reading  | 1230 0.41                | 1233 0.36                          | 1236 0.00                | 12:39 0.00             |                            |
| 8th Reading  | 1305/0.44                | 1308/0.29                          | 1311/0.00                | 1314 0.00              |                            |
| 9th Reading  |                          |                                    |                          |                        |                            |
| 10th Reading |                          |                                    |                          |                        |                            |
| Comments     | 1                        | S. SIDE OF BUILD.<br>S. SIDE FLACE | 1                        | W. SIDE OF B.          | BUTCH<br>1804              |

| Comments: | Dω | <i>₽</i> ₩ | ρW | 90 |  |
|-----------|----|------------|----|----|--|
|           |    |            |    |    |  |
|           |    |            |    |    |  |
|           |    |            |    |    |  |

AMERICAN MEDICAL LABORATORIES, INC. P.O. Box 10841 a 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900 he and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

RECEIVED : 05/14/96 RECEIVED : 05/14/96 RELEASED : 05/16/96

AML NUMBER-----VALUE-----UNITS-----

8535327 96-5-110 FILTER, AIR 1687 RESPIRABLE DUST

SITE/LOCATION:

W. SIDE OF BUILDING, W. SIDE OF FENCE, UN

DATE COLLECTED: 5-11-96 MASS: 0.019 DETECTION LIMIT: 0.010 mg CONCENTRATION: mg/H3 0.046 AIR VOLUME: 417 LÍTERS ANALYST: Maria Marino

#### NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TMA). \*\*\* FINAL REPORT \*\*\*

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS. INCLUDING REQUESTS FOR SUPPLIES, CALL

1-800-348-1590

[P 3066]-[S 24]

Ira D. Godwin, M.D. Director of Laboratories

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AMERICAN MEDICAL LABORATORIES, INC.
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#### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/17/96 RECEIVED: 05/17/96 RELEASED: 05/20/96

AML NUMBER-----VALUE-----UNITS-----

8536213 051396-04

> 1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

FILTER, AIR

NE OF BLDG ON FENCE (DW)

Less than quantitation limit.

ug 2.0

Less than quantitation limit.

2.8 uq/M3 720 LITERS

Luis Rossi

8536214 051396-05

> LEAD (7439-92-1) 1592

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

FILTER, AIR

SW OF BLDG ON PLATFORM (UW)

Less than quantitation limit.

2.0 ug

Less than quantitation limit.

Less than quantitation limit.

3.0 ua/M3

684 LITERS

Luis Rossi

FILTER, AIR

2.0

8536215 051396-06

> 1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

**CONCENTRATION:** 

QUANTITATION LIMIT:

AIR VOLUME:

Less than quantitation limit. 2.8 uq/M3

E. OF BLDG ON POLE (DW)

uq

LITERS 720

ANALYST: Luis Rossi

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

RECEIVED : 05/17/96

RELEASED : 05/20/96 REPORTED 05/20/96

WORK ORDER: 122738 17551 HARZA ENVIRONMENTAL SVCS. INC. RUDY ANGELUCCI/SEARS TOWER

233 S. WACKER DRIVE CHICAGO

60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS------

051396-01 FLD BLNK BLANK 8536210

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT: 2.0 Luis Rossi ANAL YST:

051396-01 FLD BLNK BLANK LEAC (7439-92-1) 8536211

1592

MAS: : QUANTITATION LIMIT:

ANALYST:

Less than quantitation limit.

2.0 ug Luis Rossi

8536212 051296-03

1592 LEAF (7439-92-1) SITE/LOCATION:

MASS: QUANTITATION LIMIT:

CONCENTRATION: QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

FILTER, AIR

N. OF BLDG ON FENCE (DW) Less than quantitation limit. 2.0

ug

Less than quantitation limit.

2.8 ug/M3 720 LÍTERS Luis Rossi

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

REPORTED

X

RECEIVED 05/18/96 05/20/96 RELEASED

17551 HARZA ENVIRONMENTAL SVCS. INC.

RUDY ANGELUCCI/SEARS TOWER

233 S. WACKER DRIVE 05/20/96

122746 CHICAGO WORK ORDER:

60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER------VALUE-----UNITS-----

8536228 96-5-59

RESPIRABLE DUST 1687

BLANK

DATE COLLECTED:

5-13-96

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** ANALYST:

0.010 mg Grace Borders

8536229 96-5-69 1687 RESPIRABLE DUST FILTER, AIR

SITE/LOCATION:

FIELD BLANK 5/13/96

DATE COLLECTED: MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 mq

ANALYST:

Grace Borders

96-5-55 8536230

> RESPIRABLE DUST 1687

FILTER, AIR

SITE/LOCATION:

\*N. OF BLDG ON FENCE (DW)

DATE COLLECTED:

5-13-96

MASS:

0.029 mg

**DETECTION LIMIT:** CONCENTRATION:

0.010 mg 0.057 mq/M3

AIR VOLUME:

510 LITERS

ANALYST:

**Grace Borders** 

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/17/96 RECEIVED: 05/17/96 RELEASED: 05/20/96

AML NUMBER------VALUE-----UNITS--------

# NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 10171]-[S 26]

Ira D. Godwin, M.D. Director of Laboratories

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/18/96 RECEIVED : 05/18/96 RELEASED : 05/20/96

AML NUMBER------VALUE-----UNITS------

#### NOTATIONS

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

\*\*\* FINAL REPORT \*\*\*

BRYAN MASON

TIRECTOR, IND. HYGIENE

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[P 10171]-[S 29]

Ira D. Godwin, M.D. Director of Laboratories

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/18/96 RECEIVED: 05/18/96 RELEASED: 05/20/96

AML NUMBER------VALUE-----UNITS-----

8536231 FILTER, AIR 96~5-62 1687 RESPIRABLE DUST SITE/LOCATION: NE OF BLDG ON FENCE (DW) DATE COLLECTED: 5-13-96 MASS: 0.041 mg **DETECTION LIMIT:** 0.010 mq mg/M3 **CONCENTRATION:** 0.080 AIR VOLUME: 510 LITERS ANALYST: **Grace Borders** 

8536232 96~5-63 FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION: SW OF BLDG ON PLATFORM (DW)
DATE COLLECTED: 5-13-96
MASS: 0.021 mg

DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.043 mg/M3
AIR VOLUME: 485 LITERS
ANALYST: Grace Borders

8536233 96-5-68 FILTER, AIR

1687 RESPIRABLE DUST
SITE/LOCATION: E OF BLDG. ON POLE (DW)

DATE COLLECTED: 5-13-96
MASS: 0.020 mg
DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.039 mg/M3
AIR VOLUME: 510 LITERS

ANALYST: Grace Borders

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Age and sex dependent reference ranges are printed when available Otherwise, adult values are given. f age and sex are designated.

INDUSTRIAL HYGIENE DEPARTMENT

1 PAGE

X

17551 HARZA ENVIRONMENTAL SVCS. INC. 05/17/96 RECEIVED :

RUDY ANGELUCCI/SEARS TOWER RELEASED 05/20/96

233 S. WACKER DRIVE 05/20/96 REPORTED

122739 CHICAGO WORK ORDER:

60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER------VALUE-----UNITS------

FLD BLNK BLANK 8536216 051496-01

1592

LEAD (7439-92-1)

Less than quantitation limit. MASS:

QUANTITATION LIMIT: 2.0 ug Luis Rossi ANALYST:

8536217 051496-02 FLD BLNK BLANK

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit. QUANTITATION LIMIT: 2.0

FILTER, AIR

ug ANALYST: Luis Rossi

051196-03 8536218

1592 LEAD (7439-92-1)

> SITE/LOCATION: NW OF BLDG ON FENCE (DW)

MASS: Less than quantitation limit.

QUANTITATION LIMIT: 2.0 ug

CONCENTRATION: Less than quantitation limit.

QUANTITATION LIMIT: 2.0 uq/M3 AIR VOLUME: 1008 LITERS

ANALYST: Luis Rossi



Consulting Engineers and Scientists

| ·<br>•—/                   | , ,                    | RABLE DUST AI      | R SAMPLING RE             | CORD                                  |               |
|----------------------------|------------------------|--------------------|---------------------------|---------------------------------------|---------------|
| Date: 5/                   | 13/46                  |                    | Client: <i>(11</i>        | Y OF CHKAGO                           |               |
| Day of the wee             | k: MONDAY              | <del></del>        | Du                        | TCHROY SITE                           |               |
| Sampled by: STEPHEN HEMPEL |                        |                    | 5593 M                    |                                       |               |
| Sample                     | 2876                   | 2880               | 2467                      | 2466                                  |               |
| Location                   | N. OF BLDG<br>ON FENCE | NE OF BLOG.        | SW OF BUG.<br>ON PLATFORM | E, OF BILG.                           |               |
|                            | (pm)                   | (Dm)               | (uw)                      | E. SIDE OF<br>PEORIA ST. (DW)         |               |
| WEATHER CONDITIO           | COOL & CLEAR I         | u moduline, overca | ST & STORMS MID           | DAY WINK FROM                         | 5/sw@ciomph   |
| 1st Reading                | 0830 /0.00             | 0835 /0.00         | 0845 /000                 | 0840/0.00                             |               |
| 2nd Reading                | 0920 /0.00             | 0920 / 0.35        | 0925 0.00                 | 0920/0.21                             |               |
| 3rd Reading                | 1030 / 0.00            | 1030/0.00          | 1040 / 0.00               | 1030 / 0.21                           |               |
| 4th Reading                | 1130 /0.00             | 1135 /0.32         | 1140 /0.00                | 1135/0.25                             |               |
| 5th Reading                | 1200 /0.00             | 1200 /0.00         | 1205/0.00                 | 1200/0.00                             |               |
| 6th Reading                | 1330 / 0.02            | 1335 / 0.29        | 1330 /0.00                | 1340 /0.10                            |               |
| 7th Reading                |                        |                    |                           |                                       | - RAIN STORNS |
| 8th Reading                |                        |                    |                           |                                       |               |
| 9th Reading                |                        |                    |                           |                                       |               |
| 10th Reading               |                        |                    |                           |                                       |               |
| Comments                   |                        |                    |                           |                                       |               |
| Comments:                  |                        |                    |                           | · · · · · · · · · · · · · · · · · · · |               |
|                            | <del></del>            |                    |                           |                                       |               |

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/17/96 RECEIVED: 05/17/96 RELEASED: 05/20/96

AML NUMBER------VALUE-----UNITS------

8536219 051496-04

1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

FILTER, AIR

N. OF BLDG ON FENCE (DW)

Less than quantitation limit.

2.0 ug

Less than quantitation limit.

2.0 ug/M3 1008 LITERS

Luis Rossi

8536220 051496-05

1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

FILTER, AIR

NE OF BLDG ON FENCE (DW)

Less than quantitation limit.

2.0 ug

Less than quantitation limit.

2.0 ug/M3 1008 LITERS

Luis Rossi

8536221 051496-06

1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

-06 FILTER, AIR

S. OF BLDG ON PLATFORM (UW)

Less than quantitation limit.

2.0 ug

Less than quantitation limit.

2.0 ug/M3 1008 LITERS

Luis Rossi

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/17/96 RECEIVED: 05/17/96 RELEASED: 05/20/96

AML NUMBER------VALUE-----UNITS------

# NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

BRYAN MASON

DIRECTOR, IND. HYGIENE

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[P 10171]-[S 27]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1 X

RECEIVED : 05/17/96 RELEASED 05/20/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

RUDY ANGELUCCI/SEARS TOWER

REPORTED WORK ORDER:

05/20/96 122747

233 S. WACKER DRIVE CHICAGO

IL 60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS------

96-5-109 8536234

1687

RESPIRABLE DUST

DATE COLLECTED:

DETECTION LIMIT: ANALYST:

**BLANK** 

5-14-96

Less than Detection Limit.

0.010 ma Grace Borders

FILTER, AIR

FIELD BLANK

5-14-96

8536235 96-5-116

1687

RESPIRABLE DUST SITE/LOCATION:

DATE COLLECTED:

MASS:

**DETECTION LIMIT:** ANALYST:

Less than Detection Limit.

0.010 mq Grace Borders

8536236 96-5-56

1687

RESPIRABLE DUST

SITE/LOCATION: DATE COLLECTED:

MASS:

**DETECTION LIMIT:** CONCENTRATION:

AIR VOLUME: ANALYST:

FILTER, AIR

NW. OF BLDG. ONFENCE (DW)

5-14-96

0.044 mg 0.010 mg

0.062 mg/M3 714 LITERS Grace Borders

```
AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 * 14225 Newbrook Drive, Chantilly, Virginia 22021-0841
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```

Age and sex dependent reference ranges are printed when available i age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2
RECEIVED: 05/17/96 RECEIVED: 05/17/96 RELEASED: 05/20/96

AML NUMBER-----VALUE-----UNITS-----

8536237 96-5-60 FILTER, AIR 1687 RESPIRABLE DUST SITE/LOCATION: N. OF BLDG. ON FENCE (DW) DATE COLLECTED: 5-14-96 0.026 MASS: mg DETECTION LIMIT: CONCENTRATION: 0.010 mg mg/M3 0.036 AIR VOLUME: 714 LITERS ANALYST: Grace Borders

8536238 96-5-61 FILTER, AIR RESPIRABLE DUST 1687 NE. OF BLDG. ON FENCE (DW) SITE/LOCATION: DATE COLLECTED: 5-14-96 MASS: 0.027 mg DETECTION LIMIT: 0.010 mg mg/M3 LITERS CONCENTRATION: 0.038 AIR VOLUME: ANALYST: 714 **Grace Borders** 

8536239 96-5-67 FILTER, AIR RESPIRABLE DUST 1687 SITE/LOCATION: S. OF BLDG. ON FENCE (DW) DATE COLLECTED: 5-14-96 MASS: 0.015 **DETECTION LIMIT:** 0.010 mg mg/M3 0.021 CONCENTRATION: AIR VOLUME: LĨTERS 714 **Grace Borders** 

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/17/96 RECEIVED: 05/17/96 RELEASED: 05/20/96

AML NUMBER------VALUE-----UNITS------

#### NOTATIONS

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

\*\*\* FINAL REPORT \*\*\*

#### BRYAN MASON

TIRECTOR, IND. HYGIENE

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[P 10171]-[S 30]



Consulting Engineers and Scientists

| ,                |                             | RABLE DUST A                 | IR SAMPLING RE              | CORD                                  |                  |
|------------------|-----------------------------|------------------------------|-----------------------------|---------------------------------------|------------------|
| Date: <u>5//</u> | 4/96                        | <del></del>                  | Client: <u>Cı</u> T         | Y of CHICAGO                          |                  |
| Day of the weel  | c: TUESDAY                  |                              | but                         |                                       |                  |
| Sampled by:      | STEPHEN HEM                 | PEL                          | 55                          |                                       |                  |
| Sample           | 2467                        | 2876                         | 2.880                       | 2466                                  |                  |
| Location         | NW. SIDE OF<br>BIDG ON FENE | N. SIDE &F<br>BIDE. ON FENCE | NE SIDE OF<br>BLUG ON FENCE | S. SIDE OF<br>BUG. ON                 |                  |
|                  | (DW)                        | (Ow)                         | (DW)                        | PLITEON<br>(UW)                       |                  |
| WEATHER COND.    | CLEAR IMMORNING             | , GUERCAST IN AH             | TERNOON, 40°F-              | 60 F, WINDS FR                        | M 5. Q 5-10 mg h |
| 1st Reading      | 0900 / 8.00                 | 0900 /0.00                   | 0900 / 0.00                 | 0905 / 0.00                           |                  |
| 2nd Reading      | 1010 /200                   | 1010 / 0.00                  | 1010 / 0.00                 | 1015/0.00                             |                  |
| 3rd Reading      | 1125 / 0.01                 | 1125 / 0.05                  | 1125 /0.01                  | 1130 0.00                             |                  |
| 4th Reading      | 1230 / 0.00                 | 1230 /0.00                   | 1230 /0.00                  | 1235 /0.00                            |                  |
| 5th Reading      | 1315/0.00                   | 1315 / 0.03                  | 1315/0.01                   | 1320 / 0.01                           |                  |
| 6th Reading      | 1420/0.04                   | 1420/0,07                    | 1420 / 0.03                 | 1425/0.05                             | )                |
| 7th Reading      | 1530/0.06                   | 1530 / 0.07                  | 1530 /0.01                  | 1535/0.05                             |                  |
| 8th Reading      | 1600 / 0.08                 | 1600 / 0.03                  | 160 /0.00                   | 1605/0.00                             |                  |
| 9th Reading      |                             |                              |                             | · · · · · · · · · · · · · · · · · · · |                  |
| 10th Reading     |                             |                              |                             |                                       |                  |
| Comments         |                             |                              |                             |                                       |                  |
| Comments:        |                             |                              |                             |                                       |                  |

P.O. Box 1084 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available Fage and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1 X

05/17/96 RECEIVED : C5/20/96 RELEASED

17551 HARZA ENVIRONMENTAL SVCS. INC. RUDY ANGELUCCI/SEARS TOWER

233 S. WACKER DRIVE

REPORTED C5/20/96 WORK ORDER: 122737

CHICAGO IL

60606

PROJECT NAME/JOB ID: 5593

-----UNITS-----AML NUMBER----

8536204 051596-01 **BLANK** 

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUAITITATION LIMIT: ANALYST:

2.0 uq Luis Rossi

BLANK

2.0

051! 96-02 8536205

> 1592 LEAI (7439-92-1)

> > MASS:

Less than quantitation limit.

QUANTITATION LIMIT: **ANALYST:** 

Luis Rossi

8536206 051!-96-03

> 1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

FILTER, AIR

NW OF BLDG ON FENCE (DW)

ug

Less than quantitation limit.

2.0 uq

Less than quantitation limit.

1.4 ua/M3

1476 LITERS Luis Rossi

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/17/96 RECEIVED: 05/17/96 RELEASED: 05/20/96

AML NUMBER-------VALUE-----UNITS------

2.0

1.4

1476

8536207 051596-04

> 1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

051596-05

8536208 1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

NE OF BLDG ON FENCE (DW)

Less than quantitation limit.

N. OF BLDG ON FENCE (DW)

ug/M3

LITERS

uq

Less than quantitation limit.

Less than quantitation limit.

2.0 ug

FILTER, AIR

Luis Rossi

FILTER, AIR

Less than quantitation limit.

1.4 uq/M3 1476 LITERS

Luis Rossi

8536209 051596-06

> LEAD (7439-92-1) 1592

> > SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

**ANALYST:** 

FILTER, AIR

S. OF BLDG ON PLATFORM (UW) Less than quantitation limit.

ug 2.0

Less than quantitation limit.

1.4 ug/M3

1476 LITERS

Luis Rossi

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Age and sex dependent reference ranges are printed when available Otherwise, adult values are given. Fage and sex are designated.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER------VALUE-----UNITS------

NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

BRYAN MASON

DIRECTOR, IND. HYGIENE FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 10171]-[S 25]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1 X

05/18/96 RECEIVED 05/20/96 RELEASED

17551 HARZA ENVIRONMENTAL SVCS. INC. RUDY ANGELUCCI/SEARS TOWER

05/20/96

REPORTED 122748 WORK ORDER:

233 S. WACKER DRIVE

CHICAGO

IL 60606

PROJECT NAME/JOB ID: 5593 M

8536240 96-5-248

**BLANK** 

RESPIRABLE DUST 1687

DATE COLLECTED:

5-15-96

MASS: **DETECTION LIMIT:**  Less than Detection Limit. 0.010 mq

ANALYST:

Maria Marino

8536241 96-5-253

FILTER, AIR

1687 RESPIRABLE DUST

FIELD BLANK SITE/LOCATION:

DATE COLLECTED:

MASS:

5-15-96 Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 ma

ANALYST:

Maria Marino

8536242 96-5-57

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

NW. OF BLDG. ON FENCE (DW) 5-15-96

DATE COLLECTED:

MASS:

0.062 mg

**DETECTION LIMIT:** CONCENTRATION:

0.010 mg

0.059 ma/M3 1046 LITERS

AIR VOLUME: ANALYST:

Maria Marino

```
AMERICAN MEDICAL LABORATORIES, INC.
```

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/18/96 RECEIVED: 05/18/96 RELEASED: 05/20/96

AML NUMBER-----VALUE-----UNITS-----

8536243 96-5-58 FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION: N. OF BLDG. ON FENCE (DW)

DATE COLLECTED: 5-15-96

MASS: 0.046 mg

DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.044 mg/M3
AIR VOLUME: 1046 LITERS

ANALYST: Maria Marino

8536244 96-5-254 FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION: NE. OF BLDG. ON FENCE (DW)

mq

DATE COLLECTED: 5-15-96

MASS: 0.028

DETECTION LIMIT: 0.010 mg CONCENTRATION: 0.027 mg/M3

AIR VOLUME: 1046 LITERS

ANALYST: Maria Marino

8536245 96-5-255 FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION: S. OF BLDG. ON PLATFORM (DW)

DATE COLLECTED: 5-15-96

MASS: 0.029 mg

DETECTION LIMIT: 0.010 mg
CONCENTRATION: 0.028 mg/M3

AIR VOLUME: 1046 LITERS

ANALYST: Maria Marino

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#### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/18/96 RECEIVED: 05/18/96 RELEASED: 05/20/96

AML NUMBER-----VALUE-----UNITS-----

#### **NOTATIONS**

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

\*\*\* FINAL REPORT \*\*\*

# BRYAN MASON

TIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 10171]-[S 31]

# RESPIRABLE DUST AIR SAMPLING RECORD

| Date: 5/15/96              | Client: CITY OF CHICAGO |
|----------------------------|-------------------------|
| Day of the week: WEDNESDAY | DUTCHBOY SITE           |
| Sampled by: STEPHEN HEMPEL | 5543 M                  |

|               | Ţ                |                   |               |                           |                 |
|---------------|------------------|-------------------|---------------|---------------------------|-----------------|
| Sample        | 2466             | 2467              | 2876          | 28%                       |                 |
| Location      | NW, of BUG.      | N, OF BUG.        | NE, OF BIOX.  | S. OF BLG.<br>ON PLATFORM |                 |
|               | on ferce<br>(DW) | (DW)              | (DW)          | (Uw)                      |                 |
| WEATHER COND. | Coul overcast:   | I VERY Humid (For | 4) IN AM, SAM | EIN PM , 50°              | - Lof Whas exit |
| 1st Reading   | 0715/0.00        | 0715 /0.00        | 0715/0.00     | 0720/0.00                 |                 |
| 2nd Reading   | 0830/0.43        | 0830/0.32         | 0834 / 0.08   | 0835/0.23                 |                 |
| 3rd Reading   | M30/0.42         | 0930/0.36         | 0930 /0.40    | 0935 /0.40                | ,               |
| 4th Reading   | 1005/0.45        | 1005/0.36         | 1005/0.40     | 1010/0.40                 |                 |
| 5th Reading   | 1120/0.36        | 1120/0.22         | 1/20/0.25     | 1125/0.21                 |                 |
| 6th Reading   | 1215 / 0.32      | 1215/0.25         | 1215/0.35     | 1215/0.22                 |                 |
| 7th Reading   | 1305/0.27        | 1305/0.19         | 1305/0.14     | 1310 /0.13                |                 |
| 8th Reading   | 1405/0.19        | 1405/0.15         | 1405/0.12     | 1410/0.11                 |                 |
| 9th Reading   | 1510 / 0.54      | 1510/0.19         | 1511/0.12     | 1575/0.13                 |                 |
| 10th Reading  | 1600 / 0.28      | 1600/0.15         | 1600 / 0.12   | 1605/0.13                 |                 |
| Comments      |                  |                   |               |                           |                 |

| Comments: |  |  |
|-----------|--|--|
|           |  |  |
|           |  |  |
|           |  |  |
|           |  |  |

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1 X

RECEIVED : 05/17/96 RELEASED 05/20/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

RUDY ANGELUCCI/SEARS TOWER

233 S. WACKER DRIVE

REPORTED 05/20/96

CHICAGO IL

60606

WORK ORDER:

122740

PROJECT NAME/JOB ID: 5593 M

8536222 051696-01 FLD BLNK BLANK

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT: ANALYST:

2.0 uq Luis Rossi

051696-02 FLD BLNK BLANK 8536223

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

2.0 QUANTITATION LIMIT:

Luis Rossi ANALYST:

8536224 051696-03

1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

NE OF BLDG ON POLE (UW)

2.0

Less than quantitation limit. ug

QUANTITATION LIMIT:

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

2.2 uq/M3

AIR VOLUME:

936 LITERS

ANALYST:

Luis Rossi

FILTER, AIR

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INDUSTRIAL HYGIENE DEPARTMENT

2 PAGE

RECEIVED : 05/17/96 RECEIVED : 05/17/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS------

8536225 051696-04

> 1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT: AIR VOLUME:

ANALYST:

NW OF BLDG ON FENCE (DW)

Less than quantitation limit.

2.0 ug

FILTER, AIR

Less than quantitation limit.

2.2 ug/M3 936 LITERS

Luis Rossi

8536226 051696-05

> LEAD (7439-92-1) 1592

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

FILTER, AIR

W. OF BLDG ON FENCE (DW)

Less than quantitation limit.

2.0 ug

Less than quantitation limit.

2.2 ug/M3 936 LITERS

Luis Rossi

8536227 051696-06

> 1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

FILTER, AIR

SW OF BLDG ON FENCE (DW)

Less than quantitation limit.

2.0 ug

Less than quantitation limit.

2.2 ug/M3 936 LITERS

ANALYST: Luis Rossi

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/17/96 RECEIVED: 05/17/96 RELEASED: 05/20/96

# **NOTATIONS**

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

# BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 10171]-[S 28]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

05/18/96 17551 HARZA ENVIRONMENTAL SVCS. INC. RECEIVED

RUDY ANGELUCCI/SEARS TOWER RELEASED 05/20/96

233 S. WACKER DRIVE REPORTED 05/20/96

WORK ORDER: 122749 CHICAGO

60606

X

PROJECT NAME/JOB ID: 5593 M

8536246 96-5-289 BLANK

1687 RESPIRABLE DUST

DATE COLLECTED: 5-16-96

MASS: Less than Detection Limit. DETECTION LIMIT: 0.010 ma

ANALYST: Maria Marino

8536247 96-5-290 FILTER, AIR

RESPIRABLE DUST 1687 FIELD BLANK SITE/LOCATION:

DATE COLLECTED: 5-16-96

MASS: Less than Detection Limit.

**DETECTION LIMIT:** 0.010 mq ANALYST: Maria Marino

8536248 96-5-282 FILTER, AIR RESPIRABLE DUST 1687

SITE/LOCATION: NE. OF BLDG. ON POLE (DW)

DATE COLLECTED: 5-16-96 0.013 MASS:

mg

**DETECTION LIMIT:** 0.010 mg CONCENTRATION: 0.020 mq/M3

AIR VOLUME: 663 LITERS ANALYST: Maria Marino

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AMERICAN MEDICAL LABORATORIES, INC.
```

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE

RECEIVED : 05/18/96 RECEIVED : 05/18/96 RELEASED : 05/20/96

| RESPIRABLE DUST SITE/LOCATION: |                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | 5-16-96<br>0.023 mg                                                                                                                                                                                                                                                                                                                                                |
| DETECTION LIMIT:               | 0.010 mg                                                                                                                                                                                                                                                                                                                                                           |
|                                | 0.035 mg/M3<br>663 LITERS                                                                                                                                                                                                                                                                                                                                          |
| ANALYST:                       | 663 LITERS<br>Maria Marino                                                                                                                                                                                                                                                                                                                                         |
|                                |                                                                                                                                                                                                                                                                                                                                                                    |
|                                | FILTER, AIR                                                                                                                                                                                                                                                                                                                                                        |
|                                |                                                                                                                                                                                                                                                                                                                                                                    |
|                                | W. OF BLDG. ON FENCE (DW)<br>5-16-96                                                                                                                                                                                                                                                                                                                               |
|                                | 0.024 mg                                                                                                                                                                                                                                                                                                                                                           |
|                                | 0.010 mg                                                                                                                                                                                                                                                                                                                                                           |
|                                | 0.036 mg/M3<br>663 LITERS                                                                                                                                                                                                                                                                                                                                          |
| ANALYST:                       | Maria Marino                                                                                                                                                                                                                                                                                                                                                       |
| •                              |                                                                                                                                                                                                                                                                                                                                                                    |
|                                | FILTER, AIR                                                                                                                                                                                                                                                                                                                                                        |
|                                | SW. OF BLDG. ON W. FENCE (DW)                                                                                                                                                                                                                                                                                                                                      |
|                                | 5-16-96                                                                                                                                                                                                                                                                                                                                                            |
| MASS:                          | 0.032 mg                                                                                                                                                                                                                                                                                                                                                           |
|                                |                                                                                                                                                                                                                                                                                                                                                                    |
| AIR VOLUME:                    | ∵0.048 mg/M3<br>663 LITERS                                                                                                                                                                                                                                                                                                                                         |
|                                | SITE/LOCATION: DATE COLLECTED: MASS: DETECTION LIMIT: CONCENTRATION: AIR VOLUME: ANALYST:  96-5-284 RESPIRABLE DUST SITE/LOCATION: DATE COLLECTED: MASS: DETECTION LIMIT: CONCENTRATION: AIR VOLUME: ANALYST:  96-5-285 RESPIRABLE DUST SITE/LOCATION: DATE COLLECTED: MASS: DETECTION LIMIT: CONCENTRATION: DATE COLLECTED: MASS: DETECTION LIMIT: CONCENTRATION: |

Maria Marino

REPORT CONTINUED ON NEXT PAGE...

ANALYST:

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/18/96 RECEIVED : 05/18/96 RELEASED : 05/20/96

AML NUMBER-----VALUE-----UNITS------

# **NOTATIONS**

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

\*\*\* FINAL REPORT \*\*\*

#### BRYAN MASON

"IRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 10171]-[S 32]

# HARZA

Consulting Engineers and Scientists

| ı            | , RESPI         | RABLE DUST AI       | R SAMPLING RE   | CORD                    |                       |  |
|--------------|-----------------|---------------------|-----------------|-------------------------|-----------------------|--|
| Date: 5/     | Date: 5/16/96   |                     |                 | Client: CITY of CHICAGO |                       |  |
|              | k: THURSDAY     | <u> </u>            | D               | UTCHSOY STE             |                       |  |
| Sampled by:  |                 | MPEL                | 55              | 593 M                   |                       |  |
| Sample       | 2466            | 2467                | 2876            | 2880                    |                       |  |
| Location     | NE or Bidg.     | What Blug, on Force | SW. OF BLDG.    | S of BIDG. ON FENCE     |                       |  |
|              | PECRIA ST. (UW) | (Dus)               | (Dud)           | (DW)                    |                       |  |
| WEATHER      | ~50°F , NE      | COAST WITH OCCASI   | on Sprinkus, Hu | MID (FOG), LIGHT        | WINDS FRM NE          |  |
| 1st Reading  | 0705/0.00       | 0710/0.00           | 0710/0.00       | 0720/0.00               |                       |  |
| 2nd Reading  | 0730 / 0.32     | 0730/0.58           | 6730/0.26       | 6735/0.21               | SPRINKLES             |  |
| 3rd Reading  |                 |                     |                 |                         | STEADY RAIN C815-CPCC |  |
| 4th Reading  | 1140/0.50       | 1148/0.26           | 1140/0.41       | 1145/ 0.47              |                       |  |
| 5th Reading  | 1230/0.51       | 1230/0.30           | 1230/0.43       | 1230/0.51               |                       |  |
| 6th Reading  | 1320/0.39       | 1320 / 0.26         | 1320 / 0.23     | 1320/0.29               |                       |  |
| 7th Reading  | 1430/0.21       | 1435/0.30           | 1435 /0.32      | 1435/0.38               |                       |  |
| 8th Reading  | 1530 / 0.26     | 1535 / 0.22         | 1535/0.13       | 1535/0.30               |                       |  |
| 9th Reading  | 1620 /0.21      | 1620 / 0.18         | 1620 /0.19      | 1625/0.22               |                       |  |
| 10th Reading | 1700/0.11       | 1705/.22            | 1705/.15        | 1705/.18                |                       |  |
| Comments     |                 |                     |                 |                         |                       |  |
| Comments:    | Weather 15 ve   | ry Humio And        | 15 EXPECTED -   | to BE THE Ch            | se of                 |  |
|              | HIGHER READIN   | cs. No visib        | LE DUST 15      | observed Due            | 10                    |  |
|              | DAMP + WET (    | CONDITIONS.         | <del></del>     | ·····                   |                       |  |

```
AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 # 14225 ** tembrook Brive, Chantilly, Virginia 22021-0841
                      Talephone: (703) 802-6900
```

e and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

INDUSTRIA: HYGIENE DEPARTMENT

PAGE 1

X

**RECEIVED : 05/21/96** RELEASED : 05/22/96

17551 HARZA ENVIRONMENTAL SVCS. INC. RUDY ANGELUCCI/SEARS TOWER

**REPORTED : 05/22/96** WORK ORDER:

233 S. WACKER DRIVE

122896 CHICAGO

, IL 60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8536867 051796-01

BLANK

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUANTITATION 'IMIT: ANALYST:

2.0 uq Earl Callender

8536868 051796-02

FILTER, AIR

2.0

1.6

1592 LEAD (7439-9:-1)

MASS:

Less than quantitation limit.

QUANTITATION \_IMIT:

ANALYST:

ug Earl Callender

FILTER, AIR

8536869 051796-03

1592 LEAD (7439-92-1)

SITE/LOCATIOn:

MASS:

NE OF BUILDING ON N FENCE (DW) Less than quantitation limit. ug

ug/H3

QUANTITATION \_IMIT:

2.0 Less than quantitation limit.

CONCENTRATIOn:

QUANTITATION LIMIT:

AIR VOLUME:

1,284 LÍTERS

ANALYST:

Earl Callender

8536870 051796-04

FILTER, AIR

1592 LEAD (7439-9:-1)

SITE/LOCATION:

N OF BUILDING ON FENCE (DW)

MASS:

2.2 uq 2.0 uq

QUANTITATION LIMIT:

ug/H3 1.7

CONCENTRATIO.:

AIR VOLUME: ANALYST:

1,284 LITERS Earl Callender

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AMERICAN MEDICAL LABORATORIES, INC.
```

P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

re and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

#### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/21/96 RECEIVED: 05/21/96 RELEASED: 05/22/96

AML NUMBER------VALUE-----UNITS-----

8536871 051796-05

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

NW OF BUILDING ON FENCE (DW) Less than quantitation limit.

MASS: QUANTITATION LIMIT:

2.0 ug

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

ug/M3

AIR VOLUME:

LÍTERS

ANALYST:

1,284 Earl Callender

8536872 051796-06

FILTER, AIR

1.6

1592 LEAD (7439-92-1)

SITE/LOCATION:

S OF BUILDING ON PLATFORM (UW)

MASS:

22.8 ug

QUANTITATION LIMIT: 2.0

ug

CONCENTRATION:

18.1 ug/M3

AIR VOLUME:

1.260 LITERS

ANALYST:

Earl Callender

# NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

# \*\*\* FINAL REPORT \*\*\*

#### BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL

1-800-348-1590

[P 15561]-[S 33]

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

**RECEIVED** : 05/21/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

**RELEASED** : 05/27/96

RUDY ANGELUCCI/SEARS TOWER

**REPORTED** : 05/27/96

233 S. WACKER DRIVE

WORK ORDER:

122900

CHICAGO

, IL 60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8536885 96-5-273

**BLANK** 

1687 RESPIRABLE DUST

DATE COLLECTED:

5-17-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 mq

ANALYST:

Grace Borders

^536886 96-5-295

FILTER, AIR

1687 RESPIRABLE DUST

DATE COLLECTED:

5-17-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 BQ

ANALYST:

Grace Borders

8536887 96-5-281

1687 RESPIRABLE DUST

SITE/LOCATION:

NE OF BUILDING ON N FENCE (DW)

DATE COLLECTED:

5-17-96 0.047 MQ

FILTER, AIR

MASS:

0.010 mg

DETECTION LIMIT:

mq/H3 0.052

CONCENTRATION: AIR VOLUME:

910 LITERS

ANALYST:

Grace Borders

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AMERICAN MEDICAL LABORATORIES, INC.
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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 05/21/96 RECEIVED : 05/21/96 RELEASED : 05/27/96

AML NUMBER-----VALUE-----UNITS-----

8536888 96-5-286 FILTER, AIR

1687 RESPIRABLE DUST

N OF BUILDING ON FENCE (DW) SITE/LOCATION:

DATE COLLECTED: 5-17-96

0.038 MASS:

mg DETECTION LIMIT: 0.010 mq

CONCENTRATION: 0.041 mg/H3 AIR VOLUME: 910 LITERS

ANALYST: Grace Borders

8536889 96-5-287 FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION: NW OF BUILDING ON N FENCE (DW)

mq

DATE COLLECTED: 5-17-96

0.018 MASS:

**DETECTION LIMIT:** 0.010 nq

CONCENTRATION: 0.020 mg/M3 AIR VOLUME: 910 LÎTERS

ANALYST: Grace Borders

8536890 96-5-288 FILTER, AIR

1687 RESPIRABLE DUST

S OF BUILDING ON PLATFORM (UN) SITE/LOCATION:

DATE COLLECTED: 5-17-96

MRSS: 0.023 ng

DETECTION LIMIT: 0.010 ng

mg/M3 CONCENTRATION: 0.026

AIR VOLUME: 893 LITERS

ANALYST: Grace Borders

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/21/96 RECEIVED : 05/21/96 RELEASED : 05/27/96

AML NUMBER------VALUE-----UNITS-----

NOTATIONS

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/H3 as an 8 hour time weighted average (TMA).

\*\*\* FINAL REPORT \*\*\*

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

24215]-[S 38]



Consulting Engineers and Scientists

|              | / / RESP           | IRABLE DUST A           | R SAMPLING RI    | ECORD                  |   |
|--------------|--------------------|-------------------------|------------------|------------------------|---|
| ate: 5/      | 17/96              |                         | Client: <u>C</u> | ITY OF CHICAGO         |   |
|              | ek: FRIDAY         | <u> </u>                | <b>D</b>         | UTCHBOY SITE           | · |
| ampled by:   | STEPHEN !          | EMPEL                   | <u> </u>         | 5593 M                 |   |
| Sample       | 2466               | 2467                    | 2876             | 2880                   |   |
| Location     | NE. of BLDG.       | N. OF BLUG. ON<br>FRACE | NN OF BUX.       | S. OF BLOC. ON PUTFORM |   |
|              | ON N.FENCE<br>(OM) | (Mu)                    | (DW)             | (VM)                   |   |
| Nemke        | FORCY & 53°F UPON  | ARML , WARNING          | CLEARING WWW.    | FROM 5 @ 5-10 mph.     |   |
| 1st Reading  | 0705/000           | 0705 / 0.19             | 0705/0.04        | 0710/0.10              |   |
| 2nd Reading  | 0815/0.39          | 0815/0.33               | 0815 / 0.28      | 0820 / 0.39            |   |
| 3rd Reading  | 0920/0.05          | 092 /0.09               | 0920 /0.07       | 0930 /0.00             |   |
| 4th Reading  | 1020/0.09          | 1020/0.04               | 1020/0.02        | 1025/0.00              |   |
| 5th Reading  | 1115/0.01          | 1115/0.00               | 1120/0.03        | 1120/0.00              |   |
| 6th Reading  | 1220/0.05          | 120/0.02                | 1220/0.00        | 1225/0.00              |   |
| 7th Reading  | 1310/0.03          | 1310/0.00               | 1310/0.00        | 1315 10.00             |   |
| 8th Reading  | 1425/0.00          | 1425/0.00               | 1425/0.25        | 1430/0.00              |   |
| 9th Reading  | 1530/0.10          | 1530 /0.18              | 1530/0.12        | 1535 / 0.00            |   |
| 10th Reading | 1620/0.00          | 1620/0.00               | 1620/0.00        | 1600/000               |   |
| Comments     |                    |                         |                  |                        |   |

FGRM.003

```
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```

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

**RECEIVED : 05/21/96** 

17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 05/22/96 **RUDY ANGELUCCI/SEARS TOWER** 

REPORTED : 05/22/96 233 S. WACKER DRIVE

WORK ORDER: 122899 CHICAGO

, IL

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER------VALUE-----UNITS-----

8536879 051896-01

BLANK

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 uq

ANALYST:

Earl Callender

8536880 051896-02

FILTER, AIR

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

ANALYST:

Earl Callender

8536881 051896-03

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

NE OF BUILDING ACROSS STREET 2.6

MASS:

ug 2.0

QUANTITATION LIMIT:

ug

CONCENTRATION:

2.5 ug/M3 1,056 LITERS

AIR VOLUME: ANALYST:

Earl Callender

8536882 051896-04

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

N OF BUILDING ON FENCE 3.7 uq

MASS:

2.0 uq

QUANTITATION LIMIT:

3.5 ug/M3

CONCENTRATION: AIR VOLUME:

1.056 LĪTERS

ANALYST:

Earl Callender

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Telephone: (703) 802-6900

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/21/96 RECEIVED: 05/21/96 RELEASED: 05/22/96

AML NUMBER------VALUE-----UNITS-----

1.9

8536883 051896-05

FILTER, AIR

. 1592 LEAD (7439-92-1)

SITE/LOCATION:

NW OF BUILDING ON FENCE

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 uq

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

ug/M3

AIR VOLUME:

1,056 LITERS

ANALYST:

Earl Callender

8536884 051896-06

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

SOUTH OF BUILDING ON PLATFORM

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

1.9

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

ug/M3

AIR VOLUME:

1,056 LITERS

ANALYST:

Earl Callender

# NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TMA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TMA.

\*\*\* FINAL REPORT \*\*\*

BRYAN MASON

DIRECTOR, IND. HYGIENE

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1-800-348-1590

[P 15561]-[S 34]

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/21/96 RELEASED : 05/27/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

RUDY ANGELUCCI/SEARS TOWER

**REPORTED : 05/27/96** 

233 S. WACKER DRIVE

WORK ORDER: 122898

, IL CHICAGO

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8536873 96-5-278

BLANK

1687 RESPIRABLE DUST

DATE COLLECTED:

5-18-96

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 mq

ANALYST:

Grace Borders

°536874 96-5-280

FILTER, AIR

1687 RESPIRABLE DUST

DATE COLLECTED:

5-18-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 DQ

ANALYST:

Grace Borders

8536875 96-5-259

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

NW OF BUILDING ON FENCE

DATE COLLECTED:

5-18-96

MASS:

Less than Detection Limit.

DETECTION LIKIT:

0.010 ng

CONCENTRATION:

Less than Detection Limit.

DETECTION LIMIT:

0.014 mq/M3

AIR VOLUME:

748 LITERS

ANALYST:

Don Johnsey

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/21/96 RECEIVED: 05/21/96 RELEASED: 05/27/96

ANL NUMBER-----VALUE-----UNITS-----

8536876 96-5-256

FILTER, AIR

1687 RESPIRABLE DUST

N OF BUILDING ON FENCE SITE/LOCATION:

DATE COLLECTED:

5-18-96 0.061 MASS:

DETECTION LIMIT: 0.010

ng

CONCENTRATION: AIR VOLUME:

mg/M3 0.082 748 LĪTERS

ng

ANALYST:

Grace Borders

8536877 96-5-257

FILTER, AIR

1687 RESPIRABLE BUST

SITE/LOCATION:

NE OF BUILDING ACROSS STREET 5-18-96

DATE COLLECTED:

MASS: 0.065

DETECTION LIMIT:

0.010 ng 0.087

CONCENTRATION:

mg/M3

ng

AIR VOLUME:

748 LITERS

ANALYST:

Grace Borders

8536878 96-5-263

1687 RESPIRABLE DUST

FILTER, AIR

SITE/LOCATION:

SOUTH OF BUILDING ON PLATFORM

DATE COLLECTED: 5-18-96

MASS:

0.052 mq

**DETECTION LIMIT:** 

0.010

mg

CONCENTRATION:

mg/M3 0.075

AIR VOLUME:

748 LÍTERS

ANALYST:

Grace Borders

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/21/96 RECEIVED: 05/21/96 RELEASED: 05/27/96

AML NUMBER-----VALUE-----UNITS-----

#### NOTATIONS

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

\*\*\* FINAL REPORT \*\*\*

**BRYAN MASON** 

DIRECTOR, IND. HYGIENE

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24215]-[S 37]



Consulting Engineers and Scientists

# RESPIRABLE DUST AIR SAMPLING RECORD

| Date: 5-               | 18-96              |         | Client:C        | Client: City of Chicago |  |  |
|------------------------|--------------------|---------|-----------------|-------------------------|--|--|
|                        | ek: <u>Saturda</u> | <i></i> | Dutch box 5. to |                         |  |  |
| Sampled by: Paul Careo |                    |         | 5593 m          |                         |  |  |
| Sample                 | 2466               | 2880    | 2879            | 2497                    |  |  |
| u                      |                    |         |                 |                         |  |  |

| Sample       | 2466                   | 2880        | 2879                                    | 2497           |  |
|--------------|------------------------|-------------|-----------------------------------------|----------------|--|
| Location     | NW st Bldg<br>on feace | on feace    | NE of Bldg<br>across street<br>or pole. | South of Bidg. |  |
|              | (down wind)            | (down wait) |                                         | (up wind)      |  |
|              |                        |             |                                         |                |  |
| 1st Reading  | .03                    | . 01        | .00                                     | .01            |  |
| 2nd Reading  | .00                    | .00         | .00                                     | .61            |  |
| 3rd Reading  | .01                    | .01         | .00                                     | . 08           |  |
| 4th Reading  | .01                    | -18         | -08                                     | . 06           |  |
| 5th Reading  | .01                    | .04         | . 07                                    | .10            |  |
| 6th Reading  | .00                    | .00         | .00                                     | .10            |  |
| 7th Reading  | .01                    | .02         | .00                                     | .15            |  |
| 8th Reading  | .01                    | ,62         | .00                                     | . Ó 6          |  |
| 9th Reading  | .01                    | .02         | .00                                     | .01            |  |
| 10th Reading | .01                    | .00         | .00                                     | .01            |  |
| Comments     |                        |             |                                         |                |  |

| Comments: |  |
|-----------|--|
|           |  |
|           |  |
|           |  |

```
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             INDUSTRIAL HYGIENE DEPARTMENT
                                                      X
  PAGE 1
                             17551 HARZA ENVIRONMENTAL SVCS. INC.
RECEIVED :
            05/21/96
            05/22/96
                                   RUDY ANGELUCCI/SEARS TOWER
RELEASED :
REPORTED : 05/22/96
                                   233 S. WACKER DRIVE
WORK ORDER:
              122901
                                   CHICAGO
                                                      , IL
                                                       60606
PROJECT NAME/JOB ID: 5593M
AML NUMBER-----VALUE-----UNITS-----
8536891 052096-01
                               BLANK
   1592 LEAD (7439-92-1)
                               Less than quantitation limit.
         MASS:
         QUANTITATION LIMIT:
                              2.0
                                      ug
                              Earl Callender
         ANALYST:
8536892 052096-02
                              FILTER, AIR
   1592 LEAD (7439-92-1)
         MASS:
                              Less than quantitation limit.
         QUANTITATION LIMIT:
                              2.0
                                        ug
         ANALYST:
                              Earl Callender
8536893 052096-03
                              FILTER, AIR
   1592 LEAD (7439-92-1)
         SITE/LOCATION:
                              NE OF BUILDING ON E FENCE (DW)
         MASS:
                              8.6
                                        ug
         QUANTITATION LIMIT:
                              2.0
                                        ug
         CONCENTRATION:
                                        ug/M3
                              5.5
         AIR VOLUME:
                              1,560
                                        LITERS
         ANALYST:
                              Earl Callender
8536894 052096-04
                              FILTER, AIR
   1592 LEAD (7439-92-1)
         SITE/LOCATION:
                              E OF BUILDING ON FENCE (DW)
                              3.3
                                        ug
         QUANTITATION LIMIT:
                              2.0
                                        ug
```

ua/M3

LITERS

2.1

1,560

Earl Callender

REPORT CONTINUED ON NEXT PAGE...

CONCENTRATICA:

AIR VOLUME:

ANALYST:

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AMERICAN MEDICAL LABORATORIES, INC.
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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/21/96 RECEIVED: 05/21/96 RELEASED: 05/22/96

AML KUMBER-----VALUE-----UNITS-----

8536895 052096-05

1592 LEAD (7439-92-1)

SITE/LOCATION: SE OF BUILDING ON E FENCE (DW)

FILTER, AIR

MASS: 3.2 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 2.5 ug/M3
AIR VOLUME: 1,560 LITERS

ANALYST: Earl Callender

8536896 052096-06

2096-06 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: W OF BUILDING ON PLATFORM (UW)

MASS: 2.0 ug
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: 1.3 ug/M3
AIR VOLUME: 1,560 LITERS

ANALYST:

Earl Callender

#### NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

\*\*\* FINAL REPORT \*\*\*

# **BRYAN MASON**

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 15561]-[S 35]

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1 X

RECEIVED L5/21/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED 05/25/96

RUDY ANGELUCCI/SEARS TOWER

REPORTED 05/26/96 233 S. WACKER DRIVE

WORK ORDER: 122903 CHICAGO

60606

PROJECT NAME/. OB ID: 5593M

96-! -275 8536897

> RESPIRABLE DUST 1687

> > DATH COLLECTED: 5-20-96

MASS:

Less than Detection Limit.

Less than Detection Limit.

**DETECTION LIMIT:** ANALYST:

0.010 mq Maria Marino

FILTER, AIR

**BLANK** 

**`536898** 96-5-276

> 1687 RESPIRABLE DUST

> > DATH COLLECTED: 5-20-96

MAS! :

0.010 **DETICTION LIMIT:** 

mg ANALYST: Maria Marino

8536899 96-! -258

> RESI IRABLE DUST 1687

> > SITI /LOCATION:

DATI COLLECTED: 5-20-96

MASS:

**DETECTION LIMIT:** 

CONCENTRATION: AIR VOLUME:

**ANALYST:** 

FILTER, AIR

NE OF BUILDING ON E FENCE (DW)

0.021 mq

0.010 mg

0.019 mg/M3

1,105 LITERS

Maria Marino

```
AMERICAN MEDICAL LABORATORIES, INC.
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 ^ge and sex dependent reference ranges are printed when available
   age and sex are designated. Otherwise, adult values are given.
              INDUSTRIAL HYGIENE DEPARTMENT
  PAGE
RECEIVED: 05/21/96 RECEIVED: 05/21/96 RELEASED: 05/25/96
AML NUMBER------VALUE-----UNITS------
         96-5-262
RESPIRABLE DUST
8536900
                                FILTER, AIR
    1687
          SITE/LOCATION:
                                E OF BUILDING ON FENCE (DW)
          DATE COLLECTED:
                                5-20-96
                                0.014
          MASS:
                                          mg
          DETECTION LIMIT:
                                0.010
                                          mg
                                        " mg/M3
          CONCENTRATION:
                                0.013
         AIR VOLUME:
                                1,105
                                          LĪTERS
         ANALYST:
                                Maria Marino
8536901
         96-5-267
                                FILTER, AIR
         RESPIRABLE DUST
   1687
         SITE/LOCATION:
                                SE OF BUILDING ON E FENCE (DW)
                                5-20-96
         DATF COLLECTED:
         MASS:
                                0.019
                                0.010
         DETECTION LIMIT:
                                          mg
                                          mg/M3
         CONCENTRATION:
                                0.017
         AIR VOLUME:
                                1,105
                                          LĪTERS
         ANALYST:
                                Maria Marino
8536902 96-5-269
                                FILTER, AIR
   1687
         RESTIRABLE DUST
         SITE/LOCATION:
                                W OF BUILDING ON PLATFORM
                                5-20-96
         DATE COLLECTED:
```

0.011

0:010

Ø.010

1,105

Maria Marino

mg mg/M3

LĬTERS

REPORT CONTINUED ON NEXT PAGE...

**DETLCTION LIMIT:** 

CONCENTRATION:

AIR VOLUME: ANALYST:

MASS:

P.O. Box 1084; \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/21/96 RECEIVED: 05/21/96 RELEASED: 05/25/96

AML NUMBER------VALUE-----UNITS------

#### NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

\*\*\* FINAL REPORT \*\*\*

#### BRYAN MASON

TRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 23271]-[S 36]

Ira D. Godwin, M.D. Director of Laboratories



Consulting Engineers and Scientists

|                                       | , ,                        | RABLE DUST A                | R SAMPLING RE                | CORD                                 |                            |
|---------------------------------------|----------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------------|
| Date: 5/20/96 Day of the week: MONDAY |                            |                             | Client: CITY OF CHICAGO      |                                      |                            |
|                                       |                            |                             | DUTCHBOY SITE                |                                      |                            |
| sampled by:                           | STEPHEN HEMF               | EL                          | 55                           | 793 M                                |                            |
| Sample                                | 2466                       | 2880                        | 2876                         | 2467                                 |                            |
| Location                              | NE OF BIDG.<br>ON E. FENCE | E. OF BUG.                  | SE OF BLDG.<br>ON E. FENCE   | W. OF BLY.                           |                            |
|                                       | (OW)                       | (ou)                        | (04)                         | (UW)                                 |                            |
| WEATHER                               | WIND FROM WEST             | UPAN ARRIVAL, ~             | 65°F, overast,               | WINDS CHANGE TO AV<br>THEN BACK TO W | E/E B/ MID-MOS             |
| 1st Reading                           | 010/000                    | 0710/0.00                   | 0710/0,00                    | 0720/0.00                            |                            |
| 2nd Reading                           | 0815/0.38                  | 0815/0.17                   | 0815/0,10                    | 0820/0.06                            | ·                          |
| 3rd Reading                           | 0930 / 0.01                | 0930/0.11                   | 0935 / 0.00                  | 0940/0.11                            | WIND CHANGES<br>TO NE/E    |
| 4th Reading                           | 1030 / 0.00                | 1030 / 0.22                 | 1030/0.02                    | 1035/0.00                            | WIND CHARGES<br>BACK TO W. |
| 5th Reading                           | 1130/0.10                  | 1130 / 0.47                 | 1130 /0.07                   | 1135/0.06                            |                            |
| 6th Reading                           | 1220/0.00                  | 1220/0-66                   | 1220/000                     | 1220/0.00                            |                            |
| 7th Reading                           | 1300/0.13                  | 1300/0,62                   | 1300 / 0.10                  | MONTER DEAD                          |                            |
| 8th Reading                           | 1430/0.06                  | 1430/0.42                   | 1430/0.00                    |                                      |                            |
| 9th Reading                           | 1520/0.09                  | 1520/0.46                   | 1520/1.92                    |                                      |                            |
| 10th Reading                          | 1600/0.03                  | 1600/0.05                   | 1600/0.08                    | V                                    |                            |
| LCXATIONS<br>Comments                 | SOF BUK ON PRICE (DW)      | SW of BLOG ON<br>FENCE (DW) | SE OF BLOK,<br>ON FENCE (DW) |                                      |                            |
| Comments:                             |                            |                             |                              |                                      |                            |

```
AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841
                      Telephone: (703) 802-6900
```

Te and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/30/96 **RELEASED** : 06/04/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

RUDY ANGELUCCI/SEARS TOWER

**REPORTED : 06/04/96** 

233 S. WACKER DRIVE

WORK ORDER: 123311 CHICAGO

, IL

60606

PROJECT NAME/JOB ID: 5593M

AML NUMBER-----VALUE-----UNITS-----

8538984 052196-01 FIELD BLNK BLANK

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

ANALYST:

Don Johnsey

8538985 052196-02

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

FIELD BLANK

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0

ANALYST:

Don Johnsey

8538986 052196-03

1592 LEAD (7439-92-1)

FILTER, AIR

SITE/LOCATION:

E. OF BLDG ON FENCE 2.9 ug

MASS:

QUANTITATION LIMIT:

2.0 ug

CONCENTRATION:

2.1 ug/M3 1356 LITERS

AIR VOLUME: ANALYST:

Don Johnsey

```
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```

# INDUSTRIAL HYGIENE DEPARTMENT

RECEIVED: 05/30/96 RECEIVED: 05/30/96 RELEASED: 06/04/96

8538987 052196-04 FILTER, AIR 1592 LEAD (7439-92-1)

SITE/LOCATION: SE OF BLDG ON S. FENCE
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 uq

QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.
QUANTITATION LIMIT: 1.5 ug/M3

AIR VOLUME: 1356 LITERS
AMALYST: Don Johnsey

STIE/LOCATION: SE OF BLDG ON E. FENCE
HASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 ug
CONCENTRATION: Less than quantitation limit.

QUANTITATION LIMIT: 1.5 ug/M3
AIR VOLUME: 1344 LITERS

ALK VULUME: 1344 LITERS
ANALYST: Don Johnsey

8538989 052196-06 FILTER, AIR 1592 LEAD (7439-92-1)

SITE/LOCATION: W/NW OF BLDG ON PLATFORM
MASS: Less than quantitation limit.
QUANTITATION LIMIT: 2.0 uq

CONCENTRATION: Less than quantitation limit. QUANTITATION LIMIT: 3.3 ug/M3

QUANTITATION LIMIT: 3.3 ug/M3
AIR VOLUME: 612 LITERS
ANALYST: Don Johnsey

P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

re and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/30/96 RECEIVED : 05/30/96 RELEASED : 06/04/96

AML NUMBER-----VALUE-----UNITS-----

#### NOTATIONS

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Analysis was performed via flame atomic absorption spectrophotometry (FLAR) techniques. \*\*\* FINAL REPORT \*\*\*

BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 396741-[S 39]

Ira D. Godwin, M.D. Director of Laboratories

```
AMERICAN MEDICAL LABORATORIES, INC.
```

Telephone: (703) 802-6900

e and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 05/30/96 **RELEASED** : 06/03/96

17551 HARZA ENVIRONMENTAL SVCS. INC. RUDY ANGELUCCI/SEARS TOWER

06/03/96 REPORTED : WORK ORDER: 123313 233 S. WACKER DRIVE

CHICAGO

, IL 60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8538996 96-5-384

BLANK

1687 RESPIRABLE DUST

DATE COLLECTED: 5-21-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 mq

ANALYST:

Grace Borders

538997 96-5-391

1687 RESPIRABLE DUST

SITE/LOCATION:

FIELD BLANK

FILTER, AIR

DATE COLLECTED:

5-21-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 Ba

ANALYST:

Grace Borders

8538998 96-5-272

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

E. OF BLDG ON FENCE COW)

DATE COLLECTED:

5-21-96

MASS:

0.025 mg

**DETECTION LIMIT:** 

0.010 mg 0.026 mq/H3

CONCENTRATION:

AIR VOLUME:

LITERS 961

ANALYST:

Grace Borders

```
AMERICAN MEDICAL LABORATORIES, INC.
```

Telephone: (703) 802-6900

"re and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/30/96 RECEIVED: 05/30/96 RELEASED: 06/03/96

AML NUMBER-----VALUE-----UNITS-----

8538999 96-5-274

FILTER, AIR

1687 RESPIRABLE DUST SITE/LOCATION:

SE. OF BLDG ON SOUTH FENCE (DW)

5-21-96

DATE COLLECTED: MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 119

CONCENTRATION:

Less than Detection Limit.

DETECTION LIMIT:

0.011 ng/H3

AIR VOLUME:

LITERS 961

ANALYST:

Grace Borders

8539000 96-5-277

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

SE. OF BLDG ON SOUTH FENCE (DW)

DATE COLLECTED:

5-21-96

MASS:

0.017

0.010

0.018

952

DETECTION LIMIT:

CONCENTRATION: AIR VOLUME:

mg/M3 LITERS

ANALYST:

Grace Borders

FILTER, AIR

8539001 96-5-279

1687 RESPIRABLE DUST

W/NW OF BLDG. ON PLATFORM (DW)

SITE/LOCATION: DATE COLLECTED:

5-21-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010

**CONCENTRATION:** 

Less than Detection Limit.

DETECTION LIMIT:

0.024 mg/M3

AIR VOLUME:

434 LITERS

ANALYST:

Grace Borders

```
AMERICAN MEDICAL LABORATORIES, INC.
```

Telephone: (703) 802-6900

one and sex dependent reference ranges are printed when available .ge and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED : 05/30/96 RECEIVED : 05/30/96 RELEASED : 06/03/96

AML NUMBER-----VALUE-----UNITS-----

8539002 96-5-270

FILTER, AIR

1687 RESPIRABLE DUST

W. OF I.H. SMOKESTACK (DW) SITE/LOCATION:

DATE COLLECTED: 5-21-96

0.010 MASS:

pq DETECTION LIMIT: 0.010 ng CONCENTRATION: 0.027 ng/N3

AIR VOLUME: 374 LĪTERS ANALYST: Grace Borders

8539003 96-5-271

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION: S. OF I.H. SMOKESTACK (DW)

DATE COLLECTED: 5-21-96

Less than Detection Limit. MASS:

**DETECTION LIMIT:** 0.010

**CONCENTRATION:** Less than Detection Limit.

DETECTION LIMIT: 0.027 ma/H3 AIR VOLUME: 374 LITERS

ANALYST: Grace Borders

# NOTATIONS

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TMA).

### FINAL REPORT ###

# BRYAN MASON

DIRECTOR. IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS. INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 39674]-[S 41]

Ira D. Godwin, M.D. Director of Laboratories RESPIRABLE DUST AIR SAMPLING RECORD

| Date: 5/21/96            | Client: CITY of CHICAGO |
|--------------------------|-------------------------|
| Day of the week: TVESDAY | DUTCHBOY SITE           |

Sampled by: STEPHEN HEMPEL 5593 M

| ــــــــــــــــــــــــــــــــــــــ |                              |                         |                                  |                                  |     |
|----------------------------------------|------------------------------|-------------------------|----------------------------------|----------------------------------|-----|
| Sample                                 | 2467                         | 2880                    | 2466                             | 2876                             |     |
| Location                               | E. SIDE OF BLDG.<br>ON FENCE | SE, SIDE OF<br>BLOG. ON | SE SIDE OF<br>BUDG. ON           | NW OF BLDG.<br>ON PLATFORM       |     |
|                                        | (ow)                         | E. FENCE<br>(DV)        | S. FENCE<br>(OW)                 | (rw)                             |     |
|                                        |                              | ·                       |                                  |                                  |     |
| 1st Reading                            | 0705/0.00                    | 0705/0.00               | 0710 / 0.00                      | 0715/0.00                        |     |
| 2nd Reading                            | 08/5/0.06                    | 0815/0.07               | 0815/0.00                        | 0820/0.00                        | -   |
| 3rd Reading                            | 0920/0,15                    | 0920/0.06               | 0925 / 0.03                      | 0930 0.00                        |     |
| 4th Reading                            | 1030/0.10                    | 1030/ 0.02              | 1030 / 0.00                      | 1035/ 0.00                       |     |
| 5th Reading                            | 1130/0.05                    | 1130 / 0.17             | 1130/0-03                        | 1130/0.00                        |     |
| 6th Reading                            | 1230 / 0.09                  | 1230 /0.03              | 1230 / 0.01                      |                                  |     |
| 7th Reading                            | 1340 / 0.04                  | 1340 0.06               | 1340 /0.00                       | 1300 / 0.00                      |     |
| 8th Reading                            | 1420 /0.04                   | 1420/0.02               | 1410 / 0.00                      | 1410 / 0.00                      |     |
| 9th Reading                            | 1550 / 0.00                  | 1558 / 0.00             | 1530 / 0.00                      | 1530/0.00                        |     |
| 10th Reading                           | 1630 /0.03                   | 1630/0.03               | 1640/0.00                        | 1640 /0.00                       | 7 - |
| Comments                               |                              |                         | E. OF SMOKESTACK<br>REMAINS (DW) | SE. OF SMUKETING<br>REMAINS (DW) |     |

| Comments: |      |      |  |
|-----------|------|------|--|
|           |      |      |  |
|           |      |      |  |
|           | <br> |      |  |
|           |      | <br> |  |

```
AMERICAN MEDICAL LABORATORIES, INC.
```

Telephone: (703) 802-6900

The and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

**RECEIVED : 05/30/96** 

17551 HARZA ENVIRONMENTAL SVCS. INC.

**RELEASED** : 06/04/96

RUDY ANGELUCCI/SEARS TOWER

**REPORTED : 06/04/96** 

233 S. WACKER DRIVE

WORK ORDER:

123312 CHICAGO , IL

60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8538990 052296-01 FIELD BLNK BLANK

1592 LEAD (7439-92-1)

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 uq

ANALYST:

Don Johnsey

8538991 052296-02 FIELD BLNK FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

FIELD BLANK

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

ANALYST:

Don Johnsey

8538992 052296-03

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

NW OF BLD. ON FENCE

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT: AIR VOLUME:

1.5 ug/M3

ANALYST:

1428 LÍTERS

Don Johnsey

```
AMERICAN MEDICAL LABORATORIES, INC.
```

Telephone: (703) 802-6900

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#### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/30/96 RECEIVED: 05/30/96 RELEASED: 06/04/96

AML NUMBER-----VALUE-----UNITS-----

8538993 052296-04

1592 LEAD (7439-92-1)

4E

SITE/LOCATION:

MY OF BLD. ON FENCE

MASS: QUANTITATION LIMIT: 6.1 ug

FILTER, AIR

CONCENTRATION:

2.0 ug 4.4

AIR VOLUME:

uq/M3 1416 LITERS

ANALYST:

Don Johnsey

8538994 052296-05

FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION:

SE OF BLD. ON FENCE

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 uq

**CONCENTRATION:** 

Less than quantitation limit.

QUANTITATION LIMIT:

1.5 ug/H3 LÍTERS

AIR VOLUME: ANALYST:

1428 Don Johnsey

FILTER, AIR

8538995 052296-06

1592 LEAD (7439-92-1)

SITE/LOCATION:

SH OF BLD. ON FENCE

MASS:

Less than quantitation limit.

QUANTITATION LIMIT:

2.0 ug

CONCENTRATION:

Less than quantitation limit.

QUANTITATION LIMIT:

1.5 uq/M3

AIR VOLUME:

1416 LÍTERS

ANALYST:

Don Johnsey

AMERICAN MEDICAL LABORATORIES, INC.
P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841
Telephone: (703) 802-6900
The and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/30/96 RECEIVED: 05/30/96 RELEASED: 06/04/96

AML NUMBER------VALUE-----UNITS-----

# **NOTATIONS**

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TMA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TMA.

\*\*\* FINAL REPORT \*\*\*

**BRYAN MASON** 

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 39674]-[S 40]

Ira D. Godwin, M.D. Director of Laboratories

P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

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INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

**RECEIVED : 05/30/96** 

17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 06/03/96 RUDY ANGELUCCI/SEARS TOWER

REPORTED : 06/03/96 233 S. WACKER DRIVE

WORK ORDER:

123314

CHICAGO

60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8539004 96-5-250

BLANK

1687 RESPIRABLE DUST

DATE COLLECTED:

5-22-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 Bq

ANALYST:

Maria Marino

**^539005 96-5-251** 

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

FIELD BLANK

DATE COLLECTED:

5-22-96

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010 ma

ANALYST:

Maria Marino

8539006 96-5-264

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

SE OF BLDG. ON FENCE (DW) 5-22-96

DATE COLLECTED:

MASS:

0.027 pg

DETECTION LIMIT:

0.010 mg

CONCENTRATION:

mg/M3 0.027

AIR VOLUME: ANALYST:

1012 LITERS Maria Marino

```
AMERICAN MEDICAL LABORATORIES. INC.
```

Telephone: (703) 802-6900

re and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 05/30/96 RECEIVED: 05/30/96 RELEASED: 06/03/96

AML NUMBER------VALUE-----UNITS-----

8539007 96-5-265

FILTER, AIR

1687 RESPIRABLE DUST

SW OF BLBG. ON FENCE (DW) SITE/LOCATION:

5-22-96 DATE COLLECTED:

MASS:

0.042 mg

**DETECTION LIMIT:** 

0.010 MQ

CONCENTRATION:

0.042

AIR VOLUME:

mg/H3 1003 LITERS

ANALYST:

Maria Marino

8539008 96-5-266

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

S. OF SMOKESTACK BASE (DW)

DATE COLLECTED: 5-22-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010 MQ

CONCENTRATION: **DETECTION LIMIT:**  Less than Detection Limit. 0.013 ma/H3

AIR VOLUME:

825 LĬTERS

ANALYST:

Maria Marino

8539009 96-5-268

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

E. OF SMOKESTACK BASE (DW)

DATE COLLECTED:

5-22-96

MASS:

Less than Detection Limit.

**DETECTION LIMIT:** 

0.010

**CONCENTRATION:** 

Less than Detection Limit.

**DETECTION LIMIT:** 

0.013 mq/M3

AIR VOLUME:

825 LITERS

ANALYST:

Maria Marino

P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

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# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 05/30/96 RECEIVED: 05/30/96 RELEASED: 06/03/96

AML NUMBER------VALUE-----UNITS-----

8539010 96-5-261

FILTER, AIR

1687 RESPIRABLE DUST SITE/LOCATION:

**NE. OF SMOKESTACK BASE (DW)** 

DATE COLLECTED:

5-22-96

MASS:

Less than Detection Limit.

DETECTION LIMIT:

0.010

**CONCENTRATION:** 

Less than Detection Limit.

**DETECTION LIMIT:** 

0.013 mq/M3

AIR VOLUME:

825 LITERS

ANALYST:

Maria Marino

# **NOTATIONS**

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

\*\*\* FINAL REPORT \*\*\*

#### ∠ BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 39674]-[S 42]

Ira D. Godwin, M.D. **Birector of Laboratories** 



Consulting Engineers and Scientists

# RESPIRABLE DUST AIR SAMPLING RECORD

| Sample       | 2466 | 2467       | 2876 | 2880 |             |
|--------------|------|------------|------|------|-------------|
| Location     |      | SWLF B. H. |      | 1    |             |
| st Reading   | 0.00 | 0.06       | 0.00 | 0.00 |             |
| nd Reading   | 0.03 | 0.00       | 0.00 | 8.08 | <del></del> |
| rd Reading - | 0.01 | 0.00       | 0.00 | 0.08 |             |
| th Reading   | 0.01 | 0.18       | 0.00 | 0.10 |             |
| th Reading   | 0.00 | 0.04       | 0.00 | 0.06 |             |
| th Reading   | 0.00 | 0.00       | 0.00 | 0.08 |             |
| th Reading   | 0.01 | 0.00       | 0.00 | 0.06 |             |
| th Reading   | 0.00 | 0.02       | 0.00 | 0-06 |             |
| th Reading   | 0.01 | 0.00       | 0.00 | 0.06 |             |
| th Reading   | _    | 0.00       | _    | _    |             |
| Comments     |      |            |      |      |             |



Consulting Engineers and Scientists

| RESPIRABLE DUST AIR SAMPLING RECORD |                            |             |             |                |             |  |  |
|-------------------------------------|----------------------------|-------------|-------------|----------------|-------------|--|--|
| Date: 5/23                          | 3/96                       |             | Client: CIT | Y OF CITICAGO  |             |  |  |
| Day of the wee                      | Day of the week: THURSDAY  |             |             | DUTCHBOY SITE  |             |  |  |
|                                     | Sampled by: STEPHEN HEMPEL |             |             | 5593 M         |             |  |  |
| Sample                              | 2466                       | 2167        | 2876        | 2880           |             |  |  |
| Location                            | 5. OF SMOKESTACK<br>BASE   |             |             | SE OF BUTCHBUY |             |  |  |
|                                     | (DW)                       | (DW)        | (ow)        | (DW)           |             |  |  |
|                                     |                            |             |             |                |             |  |  |
| 1st Reading                         | 0730 / 0.00                | 0730 /0.00  | 0740 / 6.00 | 0740/0.00      | LIGHT RAIN  |  |  |
| 2nd Reading                         | 0840 / 0.00                | 0840/0.00   | 0830/0.00   | 0830/0.00      | STELDY RAIN |  |  |
| 3rd Reading                         |                            | •           |             |                |             |  |  |
| 4th Reading                         |                            |             |             |                |             |  |  |
| 5th Reading                         |                            |             |             |                |             |  |  |
| 6th Reading                         |                            |             |             |                |             |  |  |
| 7th Reading                         |                            |             |             |                |             |  |  |
| 8th Reading                         |                            |             |             |                |             |  |  |
| 9th Reading                         |                            |             |             |                |             |  |  |
| 10th Reading                        |                            |             |             |                |             |  |  |
| Comments                            |                            |             |             |                |             |  |  |
| Comments:                           |                            |             |             | <del></del>    |             |  |  |
|                                     |                            | <del></del> |             |                |             |  |  |
|                                     |                            |             |             |                |             |  |  |

FORM.003

P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1 X

RECEIVED: 06/17/96 17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 06/21/96 RUDY ANGELUCCI/SEARS TOWER

REPORTED : 06/21/96 233 S. WACKER DRIVE

WORK ORDER: 124085 CHICAGO , IL

60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER------VALUE-----UNITS------

8543252 061296-01 BLANK

1592 LEAD (7439-92-1)

MASS: Less than quantitation limit.

QUANTITATION LIMIT: 2.0 ug
ANALYST: Don Johnseu

8543253 061296-02 BLANK

1592 LEAD (7439-92-1)

MASS: Less than quantitation limit.

QUANTITATION LIMIT: 2.0 ug
ANALYST: Don Johnsey

8543254 061296-03 FILTER, AIR

1592 LEAD (7439-92-1)

SITE/LOCATION: W. OF BLDG. ON PLATFORM

MASS: Less than quantitation limit.

QUANTITATION LIMIT: 2.0 uq

CONCENTRATION: Less than quantitation limit.

QUANTITATION LIMIT: 3.3 ug/M3
AIR VOLUME: 612 LITERS

ANALYST: Don Johnsey

HINDE ST. DON SOMMSES

P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED: 06/17/96 RECEIVED: 06/17/96 RELEASED: 06/21/96

AML NUMBER------VALUE-----UNITS------

8543255 061296-04

1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

FILTER, AIR

S. OF BLDG. ON PLATFORM

Less than quantitation limit.

2.0 uq

Less than quantitation limit.

3.3 ug/M3 612 LITERS

Don Johnsey

8543256 061296-05

1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

061296-06

1592 LEAD (7439-92-1)

SITE/LOCATION:

MASS:

8543257

QUANTITATION LIMIT:

CONCENTRATION:

QUANTITATION LIMIT:

AIR VOLUME:

ANALYST:

FILTER, AIR

E. OF BLDG. ON PLATFORM

Less than quantitation limit.

2.0 ug

Less than quantitation limit.

3.3 ug/M3 612 LITERS

Don Johnsey

FILTER, AIR

•

N. OF BLDG. ON PLATFORM

Less than quantitation limit.

2.0 uq

Less than quantitation limit.

3.3 ug/M3 612 LITERS

Don Johnsey

P.O. Box 10841 \* 14225 Newbrook Drive, Chantilly, Virginia 22021-0841 Telephone: (703) 802-6900

Age and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 06/17/96 RECEIVED: 06/17/96 RELEASED: 06/21/96

AML NUMBER------VALUE-----UNITS------

#### **NOTATIONS**

As per 29 CFR 1910.1025, the Permissible Exposure Limit (PEL) for lead in air is 50 ug/M3 as an 8 hour time weighted average (TWA). The PEL according to the "Lead Exposure in Construction: Interm Final Rule", (29 CFR 1926.62) has an action level of 30 ug/M3, and a PEL of 50 ug/M3, both as an 8 hour TWA.

Analysis was performed via flame atomic absorption spectrophotometry (FLAA) techniques.

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

\*\*\* FINAL REPORT \*\*\*

# BRYAN MASON

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 84370]-[S 44]

Ira D. Godwin, M.D. Director of Laboratories

P.O. Box 10841 a 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

are and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 1

X

RECEIVED : 06/17/96

17551 HARZA ENVIRONMENTAL SVCS. INC.

RELEASED : 06/18/96

RUDY ANGELUCCI/SEARS TOWER

REPORTED : 06/18/96

233 S. WACKER DRIVE

WORK ORDER: 124084 CHICAGO

60606

PROJECT NAME/JOB ID: 5593 M

AML NUMBER-----VALUE-----UNITS-----

8543258 96-5-375

1687 RESPIRABLE DUST

DATE COLLECTED:

6/12/96

BLANK

MASS:

Less than quantitation limit.

DETECTION LIMIT:

0.010 mq

ANALYST:

R. Kenneth Petrie

~543259 96-5-376

1687 RESPIRABLE DUST

SITE/LOCATION:

FIELD BLANK

FILTER, AIR

DATE COLLECTED:

6/12/96

MASS:

Less than quantitation limit.

DETECTION LIMIT:

ANALYST:

0.010 ng R. Kenneth Petrie

8543260 96-5-400

1687 RESPIRABLE DUST

SITE/LOCATION:

N. OF BLDG.

DATE COLLECTED:

6/12/96

FILTER, AIR

MASS:

Less than quantitation limit.

**DETECTION LIMIT:** 

0.010 mq

CONCENTRATION:

Less than quantitation limit.

**DETECTION LIMIT:** 

0.024 mq/H3

AIR VOLUME:

434 LITERS

ANALYST:

R. Kenneth Petrie

```
AMERICAN MEDICAL LABORATORIES, INC.
```

Telephone: (703) 802-6900

The and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

#### INDUSTRIAL HYGIENE DEPARTMENT

PAGE 2

RECEIVED : 06/17/96 RECEIVED : 06/17/96 RELEASED : 06/18/96

AML NUMBER------VALUE-----UNITS-----

8543261 96-5-397

1687 RESPIRABLE DUST

SITE/LOCATION: DATE COLLECTED:

MASS:

DETECTION LIMIT:

CONCENTRATION:

DETECTION LIMIT:

AIR VOLUME:

ANALYST:

FILTER, AIR

E. OF BLDG. 6/12/96

Less than quantitation limit.

0.010 ma

Less than quantitation limit.

0.024 mg/M3 434 LITERS R. Kenneth Petrie

8543262 96-5-394

1687 RESPIRABLE DUST

SITE/LOCATION:

DATE COLLECTED:

6/12/96

0.010

FILTER, AIR

S. OF BLDG.

MASS:

Less than quantitation limit.

nq

DETECTION LIMIT:

CONCENTRATION: Less than quantitation limit.

**DETECTION LIMIT:** AIR VOLUME:

0.024 mq/M3 434 LITERS

ANALYST:

R. Kenneth Petrie

8543263 96-5-386

1687 RESPIRABLE DUST

SITE/LOCATION:

DATE COLLECTED:

W. OF BLDG. 6/12/96

FILTER, AIR

MASS: **DETECTION LIMIT:**  Less than quantitation limit.

CONCENTRATION:

0.010 mq

DETECTION LIMIT:

Less than quantitation limit.

AIR VOLUME: ANALYST:

0.024 ma/H3 434 LITERS

R. Kenneth Petrie

```
AMERICAN MEDICAL LABORATORIES, INC.
```

Telephone: (703) 802-6900

he and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

# INDUSTRIAL HYGIENE DEPARTMENT

PAGE 3

RECEIVED: 06/17/96 RECEIVED: 06/17/96 RELEASED: 06/18/96

AML NUMBER-----VALUE-----UNITS-----

8543264 96-5-367

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

M. OF SMOKESTACK

DATE COLLECTED:

6/12/96

MASS:

Less than quantitation limit.

DETECTION LIMIT:

0.010 ng

CONCENTRATION:

Less than quantitation limit.

DETECTION LIMIT: AIR VOLUME:

0.024 mg/H3 434 LITERS

ANALYST:

R. Kenneth Petrie

8543265 96-5-368

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

E. OF SMOKESTACK

DATE COLLECTED:

6/12/96

0.048

MASS:

0.021 ng 0.010

**DETECTION LIMIT:** 

ng

CONCENTRATION:

mg/M3

AIR VOLUME:

ANALYST:

434 LITERS R. Kenneth Petrie

8543266 96-5-369

FILTER, AIR

1687 RESPIRABLE DUST

SITE/LOCATION:

S. OF SMOKESTACK

DATE COLLECTED: 6/12/96

MASS:

Less than quantitation limit.

DETECTION LIMIT:

0.010 mg

CONCENTRATION:

Less than quantitation limit.

DETECTION LIMIT:

mg/H3

AIR VOLUME:

0.024 434 LITERS

ANALYST:

R. Kenneth Petrie

P.O. Box 10841 # 14225 Newbrook Drive, Chantilly, Virginia 22021-0841

Telephone: (703) 802-6900

are and sex dependent reference ranges are printed when available age and sex are designated. Otherwise, adult values are given.

INDUSTRIAL HYGIENE DEPARTMENT

PAGE 4

RECEIVED: 06/17/96 RECEIVED: 06/17/96 RELEASED: 06/18/96

AML NUMBER-----VALUE-----UNITS-----

8543267 96-5-387

1687 RESPIRABLE DUST

**W. OF SMOKESTACK** 

FILTER, AIR

SITE/LOCATION: DATE COLLECTED:

6/12/96

MASS:

Less than quantitation limit.

**DETECTION LIMIT:** 

0.010

CONCENTRATION:

mg Less than quantitation limit.

DETECTION LIMIT:

0.024 mg/H3

AIR VOLUME:

434 LĪTERS

ANALYST:

R. Kenneth Petrie

#### NOTATIONS

The calculation of analyte concentrations is based on information (i.e. air volumes, exposure times, areas) provided by the client.

Respirable dust is determined by gravimetric procedure using NIOSH method 0600.

Respirable dust is calculated as the total mass of particulate found on the filter on analysis, and is not compound specific. Particulate not otherwise specified (i.e. not having a specific standard or PEL associated with the material) has an OSHA permissible exposure limit (PEL) of 5 mg/M3 as an 8 hour time weighted average (TWA).

\*\*\* FINAL REPORT \*\*\*

**BRYAN MASON** 

DIRECTOR, IND. HYGIENE

FOR INDUSTRIAL HYGIENE RELATED QUESTIONS, INCLUDING REQUESTS FOR SUPPLIES, CALL 1-800-348-1590

[P 74389]-[S 43]

Ira D. Godwin, M.D. Director of Laboratories

# APPENDIX C



# **TELEPHONE LOG**

Person Contacted:

Several

Project: Dutch Boy Site

Affiliation:

Several

Project Number: 5593M

Harza Representative:

Rudy Angelucci

Date:

May 7, 1996

Copies To:

R. Kewer, S. Hempel

**Phone Number:** 

Several

Call Was:

Received / Initiated

Subject:

Perimeter Air Monitoring Laboratory Results, Notification of Lead

Action Level.

# Notes:

The lead action level of 25  $\mu$ g/m³ was reached and exceeded (26.1  $\mu$ g/m³) on May 2, 1996. The lead laboratory results from that day were received via fax on May 7, 1996, at approximately 12:50 p.m. The following individuals were notified on May 7, 1996 at the following times and phone numbers:

| 14:45 | Kevin Stanciel      | (312) 744-3639 | Spoke to Mr. Stanciel.                                          |
|-------|---------------------|----------------|-----------------------------------------------------------------|
| 15:03 | Chester Wilson      | (312) 928-6961 | Spoke to Mr. Wilson.                                            |
| 15:11 | Dionne Gilmore      | (312) 821-4379 | Ms. Gilmore was at work. Left a message for her to call Rudy.   |
| 15:13 | Helen Henderson     | (312) 264-3090 | Ms. Henderson was at work. Left a message for her to call Rudy. |
| 15:15 | John Em             | (312) 595-2005 | Spoke to Mr. Em.                                                |
| 15:20 | James Van der Kloot | (312) 744-9139 | Spoke to Mr. Van der Kloot.                                     |
| 16:00 | Jan Marrero         | (312) 886-6543 | Spoke to Ms. Marrero.                                           |